Data Record of Juvenile Sockeye Salmon and other Fish Species Captured by Purse Seine and Trawl in the Strait of Georgia, Johnstone Strait and Queen Charlotte Strait in 1982, 1983, 1984, and 1985

C. Groot, K. Cooke, G. Ellis, and R. Bailey

Department of Fisheries and Oceans
Fisheries Research Branch
Pacific Biological Station
Nanaimo, British Columbia V9R 5K6

December 1985

Canadian Data Report of Fisheries and Aquatic Sciences No. 561

86-02964/

Canadian Data Report of Fisheries and Aquatic Sciences

These reports provide a medium for filing and archiving data compilations where little or no analysis is included. Such compilations commonly will have been prepared in support of other journal publications or reports. The subject matter of Data Reports reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries management, technology and development, ocean sciences, and aquatic environments relevant to Canada.

Numbers 1-25 in this series were issued as Fisheries and Marine Service Data Records. Numbers 26-160 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Data Reports. The current series name was changed with report number 161.

The correct citation appears above the abstract of each report.

Rapport statistique canadien des sciences halieutiques et aquatiques

Ces rapports servent de base à la compilation des données de classement et d'archives pour lesquelles il y a peu ou point d'analyse. Cette compilation aura d'ordinaire été préparée pour appuyer d'autres publications ou rapports. Les sujets des Rapports statistiques reflètent la vaste gamme des intérêts et politiques du Ministère des Pêches et des Océans, notamment gestion des pêches, techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les numéros 1 à 25 de cette série ont été publiés à titre de Records statistiques, Service des pêches et de la mer. Les numéros 26-160 ont été publiés à titre de Rapports statistiques du Service des pêches et de la mer, Ministère des Pêches et de l'Environnement. Le nom de la série a été modifié à partir du numéro 161.

Le titre exact paraît au haut du résumé de chaque rapport.

Canadian Data Report of
Fisheries and Aquatic Sciences No. 561

December 1985

DATA RECORD OF JUVENILE SOCKEYE SALMON AND OTHER FISH SPECIES CAPTURED BY PURSE SEINE AND TRAWL IN THE STRAIT OF GEORGIA, JOHNSTONE STRAIT AND QUEEN CHARLOTTE STRAIT IN 1982, 1983, 1984, AND 1985

by

C. Groot, K. Cooke, G. Ellis, and R. Bailey

Department of Fisheries and Oceans
Fisheries Research Branch
Pacific Biological Station
Nanaimo, British Columbia V9R 5K6

(c)Minister of Supply and Services Canada 1985

Cat.No.Fs 97-13/561E ISSN 0706-6465

Correct citation for this publication:

C. Groot, K. Cooke, G. Ellis, and R. Bailey. 1985. Data record of juvenile sockeye salmon and other fish species captured by purse seine and trawl in the Strait of Georgia, Johnstone Strait and Queen Charlotte Strait in 1982, 1983, 1984, and 1985. Can. Data Rep. Fish. Aquat. Sci. No. 561: 147 p.

ABSTRACT

C. Groot, K. Cooke, G. Ellis, and R. Bailey. 1985. Data record of juvenile sockeye salmon and other fish species captured by purse seine and trawl in the Strait of Georgia, Johnstone Strait and Queen Charlotte Strait in 1982, 1983, 1984, and 1985. Can. Data Rep. Fish. Aquat. Sci. No. 561: 147 p.

This data record summarizes catch information on the distribution and abundance of juvenile sockeye salmon (Oncorhynchus nerka) and some other species of fish in the Strait of Georgia and Johnstone and Queen Charlotte Straits during the spring and summer of 1982, 1983, 1984, and 1985. The collections were made with purse seines and a two boat trawl.

Key words: salmon, sockeye, juvenile, smolt, distribution, abundance, Strait of Georgia, Johnstone Strait, Queen Charlotte Strait

RESUME

C. Groot, K. Cooke, G. Ellis, and R. Bailey. 1985. Data record of juvenile sockeye salmon and other fish species captured by purse seine and trawl in the Strait of Georgia, Johnstone Strait and Queen Charlotte Strait in 1982, 1983, 1984, and 1985. Can. Data Rep. Fish. Aquat. Sci. No. 561: 147 p.

Cette fiche de renseignements résume l'information recueillie sur la distribution et l'abondance de saumon sockeye juvénile et de quelques autres espèces dans le détroit de Géorgie et les détroits de Johnstone et de la Reine-Charlotte, au printemps et en été 1982, 1983, 1984 et 1985. La pêche avait été faite à la senne coulissante et au chalut tiré par deux bateaux.

Mots-clés: saumon, saumon, saumon sockeye, juvénile, smolt, distribution, abondance, détroit de Georgie, détroit de Johnstone, détroit de la Reine-Charlotte

INTRODUCTION

This data record summarizes catch information on the distribution and abundance of juvenile sockeye salmon (Oncorhynchus nerka) and some other species in the surface waters of the Strait of Georgia and Johnstone and Queen Charlotte straits during the spring and summer of 1982, 1983, 1984, and 1985. The collections, which were made with purse seines and a two boat trawl, form part of a study on migratory patterns of juvenile and adult sockeye salmon of Fraser River origin in the Strait of Georgia.

The majority of sockeye smolts moving through the Strait of Georgia to the ocean are the progeny of about 40 spawning stocks in the Fraser River. A small proportion of smolts (probably less than 5%) come from sockeye stocks of streams in Puget Sound and the Powell River area. About 50% of the smolts in 1982 were assumed to originate from the Chilko Lake system (Dr. J. C. Woodey, pers. comm.), off-spring of the on-year return of sockeye salmon to this lake in the fall of 1980. A similar proportion of the run in 1983 was believed to have originated from the Quesnell Lake system, while the run in 1984 was expected to be largely (80%) composed of Shuswap Lake sockeye, progeny of the 1982 Adams River run (Dr. J. C. Woodey, pers. comm.). The majority of the run in 1985 was thought to be made up of smolts from the Shuswap, Chilko and Fraser Lakes stocks. (Dr. J. C. Woodey, pers. comm.).

METHODS

CAPTURE TECHNIQUES AND SAMPLE ANALYSIS

Fishing operations were conducted from the fisheries research vessels CALIGUS, TAHLOK, KETA and MELIBE. All boats used similar purse seine gear; the net on the CALIGUS measured 275 m by 34 m with a 12 mm (1/2") mesh bunt end, the net on the TAHLOK was 210 m by 22 m with a 6 mm (1/4") mesh bunt end and the net of the KETA was 230 m by 26 m with a 12 mm (1/2") mesh bunt end. The net used on the MELIBE was 60 m by 12 m with a 6 mm (1/4") mesh bunt end. The CALIGUS fished minimum depths of 18 to 20 fm (33 to 36 m); the TAHLOK and KETA set in waters as shallow as 12 fm (22 m) and the MELIBE operated in near shore areas of varying depths.

Trawling sets were made with a surface trawl towed between the CALIGUS and TAHLOK. The mouth opening of this net measured 6.1 m wide by 3 m deep, of which about 0.5 m stayed above the water. The overall length of the tapering body was 17.7 m. The codend was 1.8 m wide by 1.2 m deep at the mouth, tapering to a bunt end of about 0.76 m diameter. While trawling, the upper surface of the codend stayed about 0.5 m under water.

The trawl was constructed from 3 sizes of knotless netting; 5 cm and 2.5 cm stretched mesh in the body and 1.3 cm in the codend. The net was towed at about 5.6 km/h, so that the head rope just broke the surface of the water. The distance between the two vessels was fixed by a 46 m length of 1.9 cm rope. The mouth of the net was held open vertically by two steel pipes, 5 cm in diameter, 3.7 m long, weighted at the bottom end with 25 kg of lead. Each tow lasted about 10 min, covering a distance of about 0.9 km.

We decided to abandon the two boat trawl technique after 18 sets in 1982, since it caught appreciable numbers of chum and pink fry, which were dead at the end of the set. Purse seining, although possibly not as efficient as trawling, was favoured, because the catch could be sorted out without harming the fish too much and the fish not needed for further analysis could be returned to the sea.

All sets were carried out during daylight hours, generally beginning at sunrise and continuing until early afternoon. A few sets in 1984 were made in the same location but at different stages of the tide. The gear was usually set as a "closed circle" lasting about 5 to 10 min between "shooting" and "pursing". "Open" sets were first towed from 10 to 30 min before closing off.

Catches were sorted on board the vessel and the number of each species counted or estimated when they were abundant. Only sockeye smolts and tagged coho (Oncorhynchus kisutch), chinook (O. tshawytscha), and steelhead (Salmo gairdneri) were preserved for further analysis by freezing or in 10% formaline. In the laboratory fork length and wet weight of most sockeye smolts were recorded and a scale sample was taken.

In 1982, 94 purse seine and 18 trawl sets were made between May 11 and June 25 (Fig. 1). Fishing efforts were alternated between the southern and northern parts of the Strait of Georgia. We started in the south from May 11 to June 4, (TP1-48, TC 1-12) then moved to the north from June 7 to 11 (TP 49-64, TC 13-18), south again from June 14 to 16 (TP 65-79) and finished the season in the north from June 21 to 25 (TP 80-94). Fishing efforts during this first year of operation were concentrated in near shore areas, bays, and passes to increase the chances of catching sockeye juveniles. We expected that the smolts might accumulate in such areas during their migration.

A combined total of 227 seine sets were made in 1983 with the CALIGUS and TAHLOK from May 2 to July 13 (Fig. 2). Operation of the CALIGUS was generally restricted to the southern portion of the Strait of Georgia, excepting sets 61 through 70 on June 1 and 2, when the coast of Vancouver Island was surveyed from Parksville to Cape Lazo. Coverage with the TAHLOK was much more variable, extending throughout the north and south regions.

The vessels KETA and TAHLOK combined for a total of 272 sets in 1984 (Fig. 3). The TAHLOK operated primarily in the southern Gulf Islands and American San Juan Islands (TP 1-78) from May 2 until June 11. We then moved to the central Strait of Georgia and mainland coast area until June 26 (TP 79-116). The last nine sets on July 3 and 4 (TP 117-125) were carried out in the southern portion of the Strait of Georgia. The KETA provided extensive coverage of the central and northern Strait of Georgia from April 16 to June 26 with some sets in the Gulf Islands (KP 9-14 and KP 25-36) between April 18 and 26 as well as on May 7 and 8.

The KETA and MELIBE were used in 1985 to make a combined total of 46 sets (Fig. 4). The KETA operated in Johnstone and Queen Charlotte Straits (KP 1-43) from June 21 to July 5. The MELIBE was used for three sets in Johnstone Strait (MP 1-3) on July 17 and July 25.

From the preliminary work in 1982, we were able to identify productive fishing grounds for sockeye smolts as Bedwell Harbour and the Sechelt coast. In 1983 and 1984 we expanded the sampling locations with exploration of new territory and were able to expand our coverage to include the American San Juan Islands in the south and Johnstone Strait region in the north. Our sampling in 1985 was carried out in the upper Johnstone Strait region and lower Queen Charlotte Strait area.

WEATHER OBSERVATIONS

At the completion of each set, a number of weather observations were taken following the coding instructions given below. These codes are used in the tables containing the catch data.

TABLES

The following abbreviations have been used in the tables:
TP = TAHLOK purse seining
KP = KETA purse seining
CP = CALIGUS purse seining
MP = MELIBE purse seining
TC = TAHLOK + CALIGUS two boat trawling

Lengths and weights of sockeye smolts are given in milimeters (mm) and grams (g), respectively, with 1 standard deviation.

ACKNOWLEDGMENTS

We would like to express our thanks to the Washington State Department of Fisheries for permission to survey American waters in the San Juan Islands area. We are grateful to Captain Bob McLaughlin and Ed Wood of the M.V. CALIGUS and Bob Ball, Dennis Crabtree, Scott Macey, Ken Lund, Chris Hunter, Graeme Tolson, Greg Workman, and John Watt for their efforts throughout the project. Special thanks are due to Bob Hungar for his help with the 1984 and 1985 operations.

ENVIRONMENTAL DATA CODING

TIME: Pacific Standard Time

LOCATION: Indicate general area and map and set number

WATER TEMP: Surface temperature in °C to nearest 0.1°

SUN:
0 -- not visible at all
1 -- orb not visible, but there is a bright area in sky
2 -- orb visible, but through thin clouds or haze
3 -- sun obscured

MOON: Multiply Brightness by Phase

Brightness		Phase	
invisible	0	0-10%	0
vague	1	10-40%	1
moderate	2	50-80%	2
bright	3	full moon	3

STARS:
0 -- invisible
1 -- vaguely visible
2 -- moderately visible
3 -- bright

CLOUDS: Type:
0 -- clear sky
1 -- transparent coulds (haze, cirrus), sun orb visible through them
2 -- white clouds
3 -- grey clouds

%: % of total sky covered by clouds at time of observation

VISIBILITY: Horizontal visibility
0 -- less than 50 m (55 yards)
1 -- 50 m-1/2 km (55-550 yards)
2 -- 1/2 km-1 km (550-1100 yards)
3 -- 1 km-5 km (5/8-3 nautical miles)
4 -- 5 km-10 km (3-6 nautical miles)
5 -- greater than 10 km (over 6 nautical miles)

WIND:

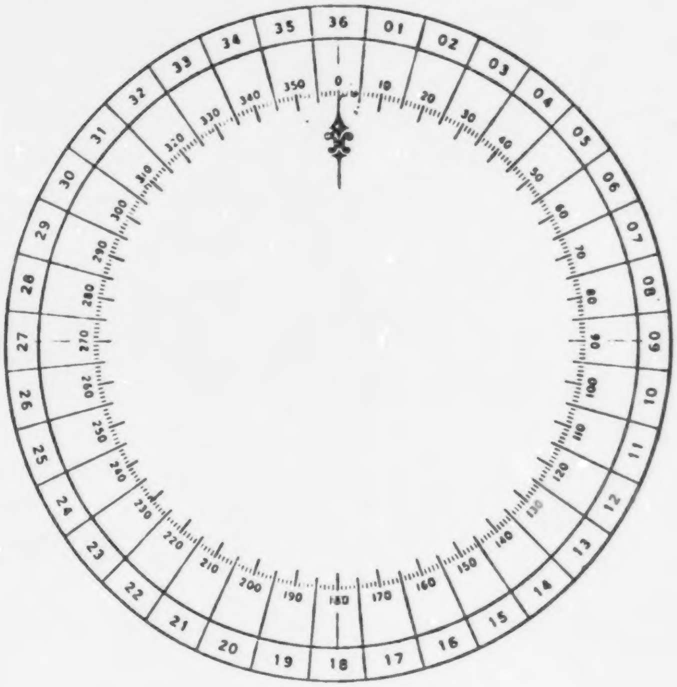
Force:

Code	Sea state	Speed
0	Like a mirror	(<2 km/hr)
1	Rippled	(2-6 km/hr)
2	wavelets, not breaking	(7-11 km/hr)
3	scattered whitecaps	(12-18 km/hr)
4	frequent waves	(19-29 km/hr)
5	moderate waves	(30-38 km/hr)
6	Large waves and spray	(39-49 km/hr)
7	foam streaks	(50-60 km/hr)

WIND: (cont'd)

8	crests breaking into spindrift	(61-73 km/hr)
9	crests toppling	(74-85 km/hr)

Direction: Record the direction from which the wind is blowing by number, using magnetic degrees


36
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350

WAVES: Height:

0 -- Flat calm
1 -- <15 cm (6 inches)
2 -- 15-30 cm (6-12 inches)
3 -- 30-60 cm (1-2 feet)
4 -- 60-90 cm (2-3 feet)
5 -- 90-150 cm (3-5 feet)
6 -- 150-210 cm (5-7 feet)

Direction:

Record the direction from which waves come using magnetic degrees.

(for code see wind direction)

RAIN: Type:

0 -- no rain
1 -- light rain
2 -- heavy rain

Duration: to nearest 10% of time since previous reading

OBSERVED TIDE:

EBB, FLOOD, or compass direction to which current flows in open water. These are surface-visual observations.

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.		TP 1	TP 2	TP 3	TP 4	TP 5
DATE		11/5/82	11/5/82	11/5/82	11/5/82	11/5/82
TIME (P.S.T.)		0725	0840	0940	1035	1230
LOCATION		Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet
- Area		Henderson Point	Senanus Island	Bamberton	Bamberton	Bamberton
- Map No.		3449	3449	3449	3449	3449
WEATHER						
- Water Temp. °C		12.5	13.0	13.8	13.9	13.9
- Sun		1	1	1	1	2
- Clouds - %		90	100	100	100	50
- type		3	3	3	3	2
- Visibility		5	5	5	5	5
- Wind - force		1	0	0	0	1
- direction		14	-	-	-	33
- Waves - height		0	0	0	0	1
- direction		-	-	-	-	33
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide						
- Tides -	FH	0125 2.6	0125 2.6	0125 2.6	0125 2.6	0125 2.6
-		0450 2.7	0450 2.7	0450 2.7	0450 2.7	0450 2.7
-		1240 .6	1240 .6	1240 .6	1240 .6	1240 .6
-		2110 3.2	2110 3.2	2110 3.2	2110 3.2	2110 3.2
CATCH						
- Sockeye N				1	3	
- Av. length				74.00	95.33±7.22	
- Av. weight				4.39	9.15±1.86	
- Age						
- Coho N						
- Chinook N					1 adult	1 adult 1 jack
- Chum N				8	277	
- Pink N						
- Steelhead N						
- Herring N		1 juv.		larvae	2	
- Greenling N						
- Lingcod N		3 larvae		larvae		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 6	TP 7	TP 8	TP 9	TP 10
DATE	11/5/82	12/5/82	12/5/82	12/5/82	12/5/82
TIME (P.S.T.)	1420	0500	0550	0725	0855
LOCATION	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet
- Area	Coal Point	1 mi W Coal Point	Mill Bay	Hatch Point	Bamberton
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	14.2	11.5	12.5	12.5	12.8
- Sun	2	1	1	3	1
- Clouds - %	50	95	90	30	10
- type	2	2	2	2	3
- Visibility	5	5	5	5	5
- Wind - force	2	1	1	0	0
- direction	33	27	27	-	-
- Waves - height	0	1	0	0	0
- direction	-	10	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					
- Tides - FH	0125 2.6	0245 2.6	0245 2.6	0245 2.6	0245 2.6
-	0450 2.7	0515 2.7	0515 2.7	0515 2.7	0515 2.7
-	1240 .6	1310 .6	1310 .6	1310 .6	1310 .6
-	2110 3.2	2145 3.2	2145 3.2	2145 3.2	2145 3.2
CATCH					
- Sockeye N					1
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N	1 juv.	1 adult			
- Chinook N	1 jack		1 jack	1 jack	
- Chum N					
- Pink N					
- Steelhead N					
- Herring N	1 juv.	2 adult			
- Greenling N					
- Lingcod N	3 larvæ				50 larvæ

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 11	TP 12	TP 13	TP 14	TP 15
DATE	12/5/82	13/5/82	13/5/82	13/5/82	13/5/82
TIME (P.S.T.)	1035	0400	0455	0530	0605
LOCATION	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet
- Area	Willis Point	Bamberton	Bamberton	Bamberton	Bamberton
- Map No..	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	13.5	10.6	10.4	10.4	11.4
- Sun	1	0	0	0	1
- Clouds - %	95	100	100	100	100
- type	3	3	3	3	3
- Visibility	5	4	5	5	5
- Wind - force	2	0	0	0	0
- direction	03	-	-	-	-
- Waves - height	2	0	0	0	0
- direction	03	-	-	-	-
Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					
- Tides - FH	0245 2.6	0315 2.6	0315 2.6	0315 2.6	0315 2.6
-	0515 2.7	0715 2.5	0715 2.5	0715 2.5	0715 2.5
-	1310 .7	1350 .8	1350 .8	1350 .8	1350 .8
-	2145 3.2	2230 3.2	2230 3.2	2230 3.2	2230 3.2
CATCH					
- Sockeye N					1
- Av. length					136.00
- Av. weight					28.89
- Age					
- Coho N					32 juv.
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N					1 juv. 11 adult
- Greenling N					
- Lingcod N			1 adult	larvae	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 16	TP 17	TP 18	TP 19	TP 20
DATE	13/5/82	13/5/82	13/5/82	13/5/82	14/5/82
TIME (P.S.T.)	0825	1034	1556	1652	0525
LOCATION	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet	Saanich Inlet
- Area	McPhail Point	Coal Point	McPhail Point	Bamberton	McPhail Point
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	12.4	13.3	13.7	13.5	12.2
- Sun	2	2	1	0	0
- Clouds - %	100	100	100	100	100
- type	3	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	0	2	2	0
- direction	-	-	02	36	-
- Waves - height	0	0	2	2	0
- direction	-	-	02	36	-
- Rain - type	0	0	0	0	1
- duration	-	-	-	-	
- Observed tide			<.5 kn F 16	<.5 kn F 16	
- Tides - FH	0315 2.6	0315 2.6	0315 2.6	0315 2.6	0330 2.6
-	0715 2.5	0715 2.5	0715 2.5	0715 2.5	0800 2.4
-	1350 .8	1350 .8	1350 .8	1350 .8	1440 .9
-	2230 3.2	2230 3.2	2230 3.2	2230 3.2	2320 3.2
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N	1 adult				
- Chinook N				3 jack	
- Chum N			1 juv.		
- Pink N					
- Steelhead N					
- Herring N	larvae	larvae		larvae	larvae
- Greenling N			10	100	
- Lingcod N	larvae	larvae	12 larvae	larvae	larvae

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	PT 21	TP 22	TP 23	TP 24	TP 25
DATE	14/5/82	17/5/82	17/5/82	18/5/82	18/5/82
TIME (P.S.T.)	0730	1812	1912	0620	0800
LOCATION	Saanich Inlet	Saltspring Island	Saltspring Island	Active Pass	Active Pass
- Area	Mill Bay	Beaver Point	Beaver Point	Helen Point	Helen Point
- Map No.	3449	3441	3441	3442	3442
WEATHER					
- Water Temp. °C	12.0	10.4	10.2	10.0	10.0
- Sun	1	3	set	1	1
- Clouds - %	100	20	30	95	90
- type	3	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	1	2	2	0	0
- direction	36	24	24	-	-
- Waves - height	1	2	2	0	0
- direction	36	24	24	-	-
- Rain - type	1	0	0	0	0
- duration	75	-	-	-	-
- Observed tide					slight F 09
- Tides - FH	0330 2.6	0040 3.2	0040 3.2	0150 3.2	0150 3.2
-	0800 2.4	0745 2.0	0745 2.0	0810 1.8	0810 1.8
-	1440 .9	1105 2.1	1105 2.1	1305 2.2	1305 2.2
-	2320 3.2	1730 1.3	1730 1.3	1830 1.5	1830 1.5
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N			larvae		
- Greenling N	adult larvae				
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 26	TP 27	TP 28	TP 29	TP 30
DATE	18/5/82	18/5/82	19/5/82	19/5/82	19/5/82
TIME (P.S.T.)	0830	1045	0838	1130	1400
LOCATION	Active Pass	Trincomali Channel	Galiano Island	Galiano Island	Saturna Island
- Area	Helen Point		5 mi SE Dionisio Point	Gossip Island	1 mi NE Tumbo Island
- Map No.	3442	3442	3442	3442	3441
WEATHER					
- Water Temp. °C	10.0	11.0	12.2	12.7	16.0
- Sun	1	2	3	3	3
- Clouds - %	60	60	50	50	5
- type	3	3	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	1	0	0	0
- direction	-	18	-	31	-
- Waves - height	0	1	0	0	0
- direction	-	18	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	slight F 09	1 kn F 13	.5 kn F 18	.5 kn F 18	.5 kn E 09
- Tides -	FH 0150 3.2	0150 3.2	PA 0200 4.4	0200 4.4	0200 4.4
-	0810 1.8	0810 1.8	0855 1.9	0855 1.9	0855 1.9
-	1305 2.2	1305 2.2	1450 3.6	1450 3.6	1450 3.6
-	1830 1.5	1830 1.5	2020 2.3	2020 2.3	2020 2.3
CATCH					
- Sockeye N			50	19	2
- Av. length			91.82±1.56	84.47±1.67	105.55±.50
- Av. weight			7.81±.42	5.78±.41	11.05±1.60
- Age					
- Coho N			4		
- Chinook N					
- Chum N			13	5	
- Pink N	1		6	1	
- Steelhead N					1
- Herring N				25 adult	
- Greenling N					
- Lingcod N				1	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 31	TP 32	TP 33	TP 34	TP 35
DATE	20/5/82	20/5/82	20/5/82	20/5/82	20/5/82
TIME (P.S.T.)	0630	0855	0945	1125	1735
LOCATION	S. Pender Island	S. Pender Island	S. Pender Island	S. Pender Island	S. Pender Island
- Area	Bedwell Bay	Bedwell Harbor	Bedwell Harbor	Bedwell Harbor	Maple Bay
- Map No.	3441	3441	3441	3441	3442
WEATHER					
- Water Temp. °C	10.0	10.3	10.5	10.9	13.0
- Sun	1	1	2	2	3
- Clouds - %	100	100	100	100	40
- type	3	3	1	1	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	0
- direction	-	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 09	<.5 kn E 09			
- Tides -	FH 0155 3.1	0155 3.1	0155 3.1	0155 3.1	0155 3.1
-	0845 1.1	0845 1.1	0845 1.1	0845 1.1	0845 1.1
-	1540 2.6	1540 2.6	1540 2.6	1540 2.6	1540 2.6
-	2030 2.0	2030 2.0	2030 2.0	2030 2.0	2030 2.0
CATCH					
- Sockeye N			1	1	
- Av. length			95.00	92.00	
- Av. weight			8.70	9.58	
- Age					
- Coho N	5 juv. 21 adult				
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N	larvae		larvae	larvae	larvae
- Greenling N					
- Lingcod N					larvae

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 36	TP 37	TP 38	TP 39	TP 40
DATE	21/5/82	21/5/82	28/5/82	28/5/84	28/5/82
TIME (P.S.T.)	0630	0735	0827	0925	1112
LOCATION	Sansum Narrows	Trincomali Channel	Stuart Channel	Stuart Channel	De Courcey Island
- Area	Arbutus Point	Reid Island	Boat Harbor	Link Island	1 mi NW Pirates Cove
- Map No.	3442	3442	3443	3443	3443
WEATHER					
- Water Temp. °C	11.4	10.6	13.6	12.6	12.7
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	10
- type	0	0	0	0	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	2	3	3
- direction	-	-	31	31	36
- Waves - height	0	0	0	0	0
- direction	-	-	31	31	36
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 15	slight E 18		.5 kn E 15	slight E 15
- Tides - FH	0255 3.1	0255 3.1	0420 2.6	0420 2.6	0420 2.6
-	0915 .7	0915 .7	0700 2.7	0700 2.7	0700 2.7
-	1645 2.9	1645 2.9	1435 .6	1435 .6	1435 .6
-	2130 2.2	2130 2.2	2255 3.4	2255 3.4	2255 3.4
CATCH					
- Sockeye N				36	2
- Av. length				82.72±1.64	86.00±9.00
- Av. weight				6.19±.45	6.20±1.90
- Age					
- Coho N				1	
- Chinook N				1	
- Chum N			77	200	20
- Pink N			61	800	50
- Steelhead N					
- Herring N	larvae		larvae		
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 41	TP 42	TP 43	TP 44	TP 45
DATE	28/5/82	31/5/82	31/5/82	1/6/82	1/6/82
TIME (P.S.T.)	1200	1234	1645	0748	0853
LOCATION	Gabriola Island	Round Island	Sansum Narrows	Satellite Channel	Saanich Inlet
- Area	1 mi W Degnen Bay	5 mi N Round Island	Grave Point	Separation Point	1 mi S Hatch Point
- Map No.	3443	3443	3442	3441	3441
WEATHER					
- Water Temp. °C	12.8	18.5	17.5	11.1	12.5
- Sun	3	2	2	3	2
- Clouds - %	15	75	80	85	75
- type	2	2	2	3	3
- Visibility	5	5	5	5	5
- Wind - force	2	0	1	0	1
- direction	28	-	32	-	03
- Waves - height	2	0	1	0	1
- direction	28	-	32	-	03
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	.5 kn E 09		.5 kn E 14	<.5 kn F 32	
- Tides - FH	0420 2.6	0015 3.4	0015 3.4	0055 3.3	0055 3.3
-	0700 2.7	0735 1.8	0735 1.8	0810 1.5	0810 1.5
-	1435 .6	1215 2.2	1215 2.2	1425 2.4	1425 2.4
-	2255 3.4	1745 1.6	1745 1.6	1855 1.9	1855 1.9
CATCH					
- Sockeye N		249			5
- Av. length		n/a			n/a
- Av. weight		n/a			n/a
- Age					
- Coho N	2	2500 chum	23 juv.		11
- Chinook N		pink, coho	100 pink,		
- Chum N	30	and chin.	chum and	9	330
			chin		
- Pink N	300				
- Steelhead N					
- Herring N	larvae	1500 kg adult		200 larvae	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 46	TP 47	TP 48	TP 49	TP 50
DATE	1/6/82	1/6/82	3/6/82	7/6/82	7/6/82
TIME (P.S.T.)	1005	1220	1903	1400	1845
LOCATION	Saanich Inlet	Saanich Inlet	Stuart Channel	Bowen Island	Gambier Island
- Area	Verdier Point	Bamberton	Osborne Bay	Cape Roger Curtis	Hope Point
- Map No.	3441	3441	3442	3526	3526
WEATHER					
- Water Temp. °C	16.0	17.5	13.4	16.0	15.0
- Sun	3	1	3	3	3
- Clouds - %	85	50	50	0	0
- type	3	3	2	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	1	2	2	0
- direction	-	35	32	17	-
- Waves - height	0	1	2	3	0
- direction	-	35	32	17	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide				1.5 kn F 36	<.5 kn F 04
- Tides -	FH 0055 3.3	0055 3.3	0150 3.2	PA 0005 3.4	0005 3.4
-	0810 1.5	0810 1.5	0915 1.0	0440 4.0	0440 4.0
-	1425 2.4	1425 2.4	1630 2.8	1145 .7	1145 .7
-	1855 1.9	1855 1.9	2045 2.4	1930 4.5	1930 4.5
CATCH					
- Sockeye N				3	32
- Av. length				103.67±5.33	100.12±1.56
- Av. weight				11.10±1.80	10.85±.48
- Age					
- Coho N	2 juv. 1 adult			6 juv.	18 juv.
- Chinook N					
- Chum N	648	4500	24		50
- Pink N	17		2	6	10
- Steelhead N				1	
- Herring N		adult		1000 adult	
- Greenling N		adult			
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 51	TP 52	TP 53	TP 54	TP 55
DATE	8/6/82	8/6/82	8/6/82	8/6/82	8/6/82
TIME (P.S.T.)	0730	0810	0910	1327	1820
LOCATION	Thormanby Island	Thormanby Island	Thormanby Island	Sechelt Peninsula	Sechelt Peninsula
- Area	Tottenham Ledge	Water Bay	Buccaneer Bay	Agemannon Channel	Lee Bay
- Map No.	3577	3577	3577	3589	3589
WEATHER					
- Water Temp. °C	15.6	16.0	16.2	16.2	16.4
- Sun	2	2	2	3	3
- Clouds - %	100	100	100	40	70
- type	1	1	1	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	2	2	3	2
- direction	13	13	13	18	18
- Waves - height	3	2	2	4	3
- direction	13	13	13	18	18
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide				slight E 18	
- Tides - PA	0050 11.1 0505 12.8 1220 2.4 2000 14.8	0050 11.1 0505 12.8 1220 2.4 2000 14.8	0050 11.1 0505 12.8 1220 2.4 2000 14.8	0050 11.1 0505 12.8 1220 2.4 2000 14.8	0050 11.1 0505 12.8 1220 2.4 2000 14.8
CATCH					
- Sockeye N	8	1	9	15	199
- Av. length	86.63±2.04	86.00	83.00±4.64	83.00±3.84	90.63±.54
- Av. weight	6.29±.45	5.60	6.12±1.06	5.88±.76	7.21±.14
- Age					
- Coho N	7 (1 tag)	8 juv.	7 juv. 1 adult	2	30
- Chinook N					
- Chum N			5	50	400
- Pink N	36	12	14	65	500
- Steelhead N					
- Herring N					800
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 56	TP 57	TP 58	TP 59	TP 60
DATE	9/6/82	9/6/82	9/6/82	9/6/82	9/6/82
TIME (P.S.T.)	0730	0835	0950	1110	1406
LOCATION	Texada Island	Texada Island	Texada Island	Texada Island	Lambert Channel
- Area	Grilse Point	Blubber Bay	Blubber Bay	Crescent Bay	Shingle Spit
- Map No.	3591	3591	3591	3591	3590
WEATHER					
- Water Temp. °C	16.0	17.0	17.0	17.0	16.0
- Sun	3	3	3	3	3
- Clouds - %	20	20	20	20	0
- type	2	2	2	1	0
- Visibility	5	5	5	5	5
- Wind - force	1	1	1	0	0
- direction	32	26	26	-	-
- Waves - height	1	1	1	1	0
- direction	32	26	26	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					.5 kn F 10
- Tides - PA	0130 3.4	0130 3.4	0130 3.4	0130 3.4	0130 3.4
-	0540 3.8	0540 3.8	0540 3.8	0540 3.8	0540 3.8
-	1300 .8	1300 .8	1300 .8	1300 .8	1300 .8
-	2040 4.5	2040 4.5	2040 4.5	2040 4.5	2040 4.5
CATCH					
- Sockeye N		12	21	15	
- Av. length		93.42±2.17	100.71±1.92	91.60±1.45	
- Av. weight		8.93±.67	11.18±.62	8.35±.43	
- Age					
- Coho N	3	3 (1 tag)	9	5	
- Chinook N					
- Chum N		100	163 pink	1500 pink	800
- Pink N		250	and chum	and chum	200
- Steelhead N					
- Herring N		larvae	larvae 3 adult	larvae	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 61	TP 62	TP 63	TP 64	TP 65
DATE	9/6/82	10/6/82	10/6/82	11/6/82	14/6/82
TIME (P.S.T.)	1605	1239	1610	0854	1035
LOCATION	Hornby Island	Lasqueti Island	St. Georgia	St. Georgia	Stuart Channel
- Area	Tribune Bay	Tucker Bay	5 mi N Parksville	Northwest Bay	Round Island
- Map No.	3590	3590	3590	3590	3543
WEATHER					
- Water Temp. °C	15.5	18.0	19.0	16.0	16.0
- Sun	3	3	3	3	2
- Clouds - %	0	0	0	0	85
- type	-	-	-	-	3
- Visibility	5	5	5	5	5
- Wind - force	0	2	0	3	1
- direction	-	07	-	30	12
- Waves - height	0	2	0	3	1
- direction	-	07	-	03	12
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					
- Tides -	PA 0130 3.4	0220 3.3	0220 3.3	0315 3.3	FH 0615 2.0
-	0540 3.8	0615 3.7	0615 3.7	0650 3.5	0905 2.1
-	1300 .8	1340 .9	1340 .9	1405 1.1	1540 1.3
-	2040 4.5	2120 4.5	2120 4.5	2155 4.5	2330 3.3
CATCH					
- Sockeye N	4	2	3		
- Av. length	109.5±8.49	94.50±1.50	99.00±4.58		
- Av. weight	15.15±2.86	8.55±.95	11.23±2.02		
- Age					
- Coho N	3			18 (1 tag)	
- Chinook N					
- Chum N		150 chum	1100 pink		8
- Pink N		and pink	and chum		100
- Steelhead N				1	
- Herring N					1000 juv.
		3 adult			
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 66	TP 67	TP 68	TP 69	TP 70
DATE	14/6/82	14/6/82	14/6/82	15/6/82	15/6/82
TIME (P.S.T.)	1246	1358	1635	0638	1005
LOCATION	DeCourcey Group	Stuart Channel	Stuart Channel	Stuart Channel	Satellite Channel
- Area	Ruxton Passage	Kulleet Bay	Chemainus Harbor	Sherard Point	Separation Point
- Map No.	3443	3443	3443	3443	3441
WEATHER					
- Water Temp. °C	17.0	16.0	17.0	16.8	14.0
- Sun	3	3	2	3	3
- Clouds - %	50	50	80	60	60
- type	1	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	0	0	1	2	2
- direction	-	-	5	10	10
- Waves - height	0	0	1	2	2
- direction	-	-	5	10	10
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					<.5 kn F 09
- Tides - FH	0615 2.0	0615 2.0	0615 2.0	0645 1.8	0645 1.8
-	0905 2.1	0905 2.1	0905 2.1	1115 2.1	1115 2.1
-	1540 1.3	1540 1.3	1540 1.3	1635 1.6	1635 1.6
-	2330 3.3	2330 3.3	2330 3.3	2355 3.3	2355 3.3
CATCH					
- Sockeye N		2			
- Av. length		88.00±1.00			
- Av. weight		6.45±.35			
- Age					
- Coho N	1	3	3	52	38
- Chinook N					68
- Chum N	30	25	50	320	390
- Pink N		20	10		85
- Steelhead N					
- Herring N	1000 kg juv.	adult	1 adult	1000 juv.	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 71	TP 72	TP 73	TP 74	TP 75
DATE	15/6/82	15/6/82	15/6/82	15/6/82	15/6/82
TIME (P.S.T.)	1120	1353	1510	1604	1934
LOCATION	Saanich Inlet	Haro Strait	S. Pender Island	S. Pender Island	S. Pender Island
- Area	Hatch Point	Comet Island	Bedwell Harbor	Bedwell Harbor	Bedwell Harbor
- Map No.	3441	3441	3441	3441	3441
WEATHER					
- Water Temp. °C	15.0	11.0	12.5	12.5	12.5
- Sun	3	2	3	3	3
- Clouds - %	60	50	25	25	0
- type	1	1	1	1	-
- Visibility	5	5	5	5	5
- Wind - force	3	1	0	0	0
- direction	07	08	-	-	-
- Waves - height	3	1	0	0	0
- direction	07	08	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	.5 kn E 09			.5 kn E 09	
- Tides -	FH 0645 1.8	0645 1.8	0645 1.8	0645 1.8	0645 1.8
-	1115 2.1	1115 2.1	1115 2.1	1115 2.1	1115 2.1
-	1635 1.6	1635 1.6	1635 1.6	1635 1.6	1635 1.6
-	2355 3.3	2355 3.3	2355 3.3	2355 3.3	2355 3.3
CATCH					
- Sockeye N			9	1	1
- Av. length			89.89±1.83	105.00	97.00
- Av. weight			7.12±.53	n/a	7.46
- Age					
- Coho N	15				4 (1 tag)
- Chinook N	20				
- Chum N	200	10	40	20	
- Pink N	40		20	2	
- Steelhead N		1			
- Herring N		larvae		1000 kg larvae	100 adult
- Greenling N					
- Lingcod N			larvae		1 juv.

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 76	TP 77	TP 78	TP 79	TP 80
DATE	16/6/82	16/6/82	16/6/82	16/6/82	21/6/82
TIME (P.S.T.)	0857	1055	1250	1555	1843
LOCATION	Saltspring Island	Saanich Inlet	Saanich Inlet	Houston Passage	Sechelt Peninsula
- Area	Isabella Island	Hatch Point	Bamberton	Tent Island	Lee Bay
- Map No.	3441	3441	3441	3453	3589
WEATHER					
- Water Temp. °C	13.0	19.0	22.0	19.0	19.0
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	30
- type	-	-	-	-	1
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	2
- direction	-	-	-	-	16
- Waves - height	0	0	0	0	2
- direction	-	-	-	-	16
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	.5 kn F				
- Tides -	FH 0705 1.5	0705 1.5	0705 1.5	0705 1.5	PA 0340 4.5
-	1320 2.3	1320 2.3	1320 2.3	1320 2.3	1115 .0
-	1745 1.9	1745 1.9	1745 1.9	1745 1.9	1835 4.8
-					2345 3.4
CATCH					
- Sockeye N	1				5
- Av. length	90.00				109.60±3.68
- Av. weight	4.60				14.62±1.51
- Age					
- Coho N	1	44 juv. 1 adult	12		12
- Chinook N					2 jack 2 adult
- Chum N	850 pink	300 pink		100	45
- Pink N	and chum	and chum	200	100	6
- Steelhead N					
- Herring N	100 adult	1000 kg juv.			
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 81	TP 82	TP 83	TP 84	TP 85
DATE	22/6/82	22/6/82	22/6/82	22/6/82	23/6/82
TIME (P.S.T.)	1058	1559	1855	2000	0648
LOCATION	Sechelt Peninsula	Cortes Island	Cortes Island	Cortes Island	W. Redonda Island
- Area	Lee Bay	Sarah Point	Squirrel Cove	Boulder Point	Joyce Point
- Map No.	3589	3594	3594	3594	3594
WEATHER					
- Water Temp. °C	20.0	16.0	18.0	18.0	14.0
- Sun	3	3	3	0	3
- Clouds - %	30	70	50	50	0
- type	1	1	1	1	-
- Visibility	5	5	5	5	5
- Wind - force	2	2	2	1	2
- direction	18	18	33	33	22
- Waves - height	2	2	2	1	2
- direction	18	18	33	33	22
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					
- Tides -	PA 0425 4.5	CR 0355 4.4	0355 4.4	0355 4.4	0055 3.5
-	1150 -.1	1155 .0	1155 .0	1155 .0	0445 4.2
-	1925 4.8	1845 4.4	1845 4.4	1845 4.4	1235 .0
-					1935 4.5
CATCH					
- Sockeye N	1	4		7	6
- Av. length	119.00	102.50±7.51		129.14±2.81	114.33±1.93
- Av. weight	19.06	12.10±2.55		23.54±1.52	13.98±2.04
- Age					
- Coho N	24 (1 tag)				25 (3 tag)
- Chinook N	8	1	2 jack		
- Chum N	50	65		16	65
- Pink N	30				
- Steelhead N					
- Herring N			1500 kg juv.	1000 kg. juv.	adult
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TP 86	TP 87	TP 88	TP 89	TP 90
DATE	23/6/82	23/6/82	23/6/82	23/6/82	23/6/82
TIME (P.S.T.)	0905	1154	1444	1515	1550
LOCATION	Raza Passage	Quadra Island	Quadra Island	Quadra Island	Quadra Island
- Area	Francis Bay	Chonat Bay	Kanish Bay	Kanish Bay	Kanish Bay
- Map No.	3594	3594	3594	3594	3594
WEATHER					
- Water Temp. °C	17.0	13.5	16.0	16.0	14.0
- Sun	3	3	3	3	3
- Clouds - %	0	70	70	70	20
- type	-	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	2	0	2	2	3
- direction	22	-	24	24	28
- Waves - height	2	0	2	2	3
- direction	22	-	24	24	28
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					
- Tides - CR	0055 3.5	0055 3.5	0055 3.5	0055 3.5	0055 3.5
-	0445 4.2	0445 4.2	0445 4.2	0445 4.2	0445 4.2
-	1235 .0	1235 .0	1235 .0	1235 .0	1235 .0
-	1935 4.5	1935 4.5	1935 4.5	1935 4.5	1935 4.5
CATCH					
- Sockeye N	13	4		1	1
- Av. length	108.00±2.23	109.00±8.61		118.00	114.00
- Av. weight	13.77±.99	15.14±3.19		15.56	16.70
- Age					
- Coho N	6	4		1 adult	3 adult 1 jack
- Chinook N	4				
- Chum N	150	3000		12	1500
- Pink N	50	2000			
- Steelhead N					
- Herring N		200+ adult	3 adult		
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.		TP 91	TP 92	TP 93	TP 94
DATE		24/6/82	24/6/82	24/6/82	25/6/82
TIME (P.S.T.)		0850	1127	1400	0703
LOCATION		St. Georgia	Hornby Island	St. Georgia	Parksville
- Area		2 mi S Cape Lazo	Tribune Bay	Sisters Islands	Northwest Bay
- Map No.		3590	3590	3590	3590
WEATHER					
- Water Temp. °C		16.0	19.5	19.5	19.0
- Sun		3	3	3	2
- Clouds - %		0	0	0	100
- type		-	-	-	2
- Visibility		5	5	5	5
- Wind - force		2	2	0	0
- direction		35	0	-	-
- Waves - height		2	2	0	0
- direction		35	0	-	-
- Rain - type		0	0	0	0
- duration		-	-	-	-
- Observed tide		<.5 kn E 12			
- Tides -	PA	0130 3.4	0130 3.4	0130 3.4	0240 3.2
-		0600 4.2	0600 4.2	0600 4.2	0710 3.9
-		1320 .3	1320 .3	1320 .3	1410 .7
-		2105 4.8	2105 4.8	2105 4.8	2150 4.8
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N		74 (5 tag)			
- Chinook N		16 (3 tag)			8
- Chum N		60	40	1	
- Pink N			60		
- Steelhead N		2 (1 tag)			
- Herring N			3 juv.	6 juv.	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TC 1	TC 2	TC 3	TC 4	TC 5
DATE	2/6/82	2/6/82	2/6/82	2/6/82	3/6/82
TIME (P.S.T.)	0850-0900	0947-0957	1150-1200	1237-1247	0718-0728
LOCATION	Satellite Channel	Satellite Channel	N. Pender Island	S. Pender Island	Haro Strait
- Area	NE to SW Arbutus Island	SW to NE Arbutus Island	SE to NW Oak Bluff	NW to SE Bedwell Harbor	S to N Kelp Reefs
- Map No.	3441	3441	3441	3441	3449
WEATHER					
- Water Temp. °C	11.8	11.4	10.4	11.3	9.8
- Sun	0	0	0	1	2
- Clouds - %	100	100	100	100	90
- type	3	3	3	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	0	0	2	1
- direction	27			33	16
- Waves - height	3	0	0	2	2
- direction	27			33	34
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	.5 kn F 27	.5 kn F 27		2 kn E 34
- Tides - FH	0130 3.3	0130 3.3	0130 3.3	0130 3.3 VIC	0010 2.5
-	0850 1.2	0850 1.2	0850 1.2	0850 1.2	0715 .9
-	1530 2.6	1530 2.6	1530 2.6	1530 2.6	1630 2.0
-	1945 2.2	1945 2.2	1945 2.2	1945 2.2	1845 2.0
CATCH					
- Sockeye N	1			251	
- Av. length	n/a			n/a	
- Av. weight	n/a			n/a	
- Age					
- Coho N	2	12		6	
- Chinook N		1			
- Chum N	74	900		3000	
- Pink N	4	50		100	
- Steelhead N					
- Herring N				100 adult	
- Greenling N					
- Lingcod N	4 larvae				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.		TC 6	TC 7	TC 8	TC 9	TC 10
DATE		3/6/82	3/6/82	3/6/82	3/6/82	3/6/82
TIME (P.S.T.)		0815-0825	0931-0941	1135-1143	1401-1411	1746-1756
LOCATION		Haro Strait	Haro Strait	Victoria	Sidney Island	Sansum Narrows
- Area		S to N Zero Rock	S to N Cordova Bay	N to S Trial Island	NW to SE Sydney Channel	SE to NW Octopus Point
- Map No.		3449	3449	3449	3449	3442
WEATHER						
- Water Temp. °C		10.4	11.1	10.1	11.5	13.5
- Sun		2	2	3	3	3
- Clouds - %		80	50	30	50	50
- type		2	2	2	2	2
- Visibility		5	5	5	5	5
- Wind - force		0	2	2	2	2
- direction		-	16	16	12	32
- Waves - height		0	3	3	2	2
- direction		-	16	16	12	32
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		1 kn E 34		1.5 kn F		
- Tides -	VIC	0010 2.5	0010 2.5	0010 2.5	FH 0150 3.2	0150 3.2
-		0715 .9	0715 .9	0715 .9	0915 1.0	0915 1.0
-		1630 2.0	1630 2.0	1630 2.0	1630 2.8	1630 2.8
-		1845 2.0	1845 2.0	1845 2.0	2045 2.4	2045 2.4
CATCH						
- Sockeye N						2
- Av. length						n/a
- Av. weight						n/a
- Age						
- Coho N						6
- Chinook N						
- Chum N					1	45
- Pink N						
- Steelhead N						
- Herring N		larvae	larvae	larvae	juv.	larvae
- Greenling N						
- Lingcod N		1 juv.				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TC 11	TC 12	TC 13	TC 14	TC 15
DATE	3/6/82	4/6/82	9/6/82	10/6/82	10/6/82
TIME (P.S.T.)	1825-1835	0649-0654	1817-1827	0720-0725	0953-1003
LOCATION	Sansum Narrows	Valdes Island	Hornby Island	Baynes Sound	Lasqueti Island
- Area	SE to NW Osborne Bay	N to S Cardale Point	E to W Tribune Bay	SE to NW Deep Bay	E to W False Bay
- Map No.	3442	3442	3590	3590	3590
WEATHER					
- Water Temp. °C	13.4	11.4	15.5	15.5	16.0
- Sun	3	1	3	3	3
- Clouds - %	50	100	0	0	0
- type	2	2	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	2	0	0	0	2
- direction	32	-	-	-	24
- Waves - height	2	0	0	0	2
- direction	32	-	-	-	24
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide					
- Tides -	FH 0150 3.2	0220 3.1	PA 0130 3.4	0220 3.3	0220 3.3
-	0915 1.0	0940 .8	0540 3.8	0615 3.7	0615 3.7
-	1630 2.8	1720 3.0	1300 .8	1340 .9	1340 .9
-	2045 2.4	2200 2.5	2040 4.5	2120 4.5	2120 4.5
CATCH					
- Sockeye N	3	43	6		1
- Av. length	n/a	94.42±1.60	105.17±2.77		93.00
- Av. weight	n/a	8.71±.49	12.93±1.50		8.91
- Age					
- Coho N	42			10 (1 tag)	
- Chinook N					
- Chum N	60	20	4-500	350	1
- Pink N		100		20	
- Steelhead N					
- Herring N	1	larvae		1 adult	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: R. Ball

SET NO.	TC 16	TC 17	TC 18
DATE	10/6/82	10/6/82	11/6/82
TIME (P.S.T.)	1122-1129	1424-1434	0752-0802
LOCATION	Lasqueti Island	Texada Island	St. Georgia
- Area	SE to NW Spring Bay	NW to SE Sabine Channel	NW to SE French Creek
- Map No.	3590	3590	3590
WEATHER			
- Water Temp. °C	17.0	18.0	17.5
- Sun	3	3	3
- Clouds - %	0	0	0
- type	-	-	-
- Visibility	5	5	5
- Wind - force	1	0	3
- direction	07	-	32
- Waves - height	2	0	3
- direction	07	-	32
- Rain - type	0	0	0
- duration	-	-	-
- Observed tide			
- Tides - PA	0220 3.3	0220 3.3	0315 3.3
-	0615 3.7	0615 3.7	0650 3.5
-	1340 .9	1340 .9	1405 1.1
-	2120 4.5	2120 4.5	2155 4.5
CATCH			
- Sockeye N	1	1	
- Av. length	84.00	94.00	
- Av. weight	6.10	8.71	
- Age			
- Coho N	7		
- Chinook N			
- Chum N	1200	65	50
- Pink N		10	5
- Steelhead N			
- Herring N			
- Greenling N			40
- Lingcod N			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 1	TP 2	TP 3	TP 4	TP 5
DATE	2/5/83	3/5/83	3/5/83	3/5/83	3/5/83
TIME (P.S.T.)	1400	0500	0630	0845	1000
LOCATION	Pylades Channel	Pylades Channel	Valdes Island	Valdes Island	Valdes Island
- Area	1 mi S Pylades Channel	1.5 mi S Pylades Channel	Blackberry Point	1 mi SE Detwiller Point	3 mi NW Detwiller Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	11.7	11.7	11.9	11.2	11.0
- Sun	1	0	0	2	2
- Clouds - %	75	100	90	90	80
- type	3	3	3	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	0	0	0	1
- direction	9	-	-	-	10
- Waves - height	1	0	0	0	0
- direction	9	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn F 09	.5 kn E 15	nil	nil	nil
- Tides -	FH 0345 2.7	0345 2.7	0345 2.7	PA 0500 3.4	0500 3.4
-	0550 2.7	0550 2.7	0550 2.7	0800 3.4	0800 3.4
-	1405 .7	1405 .7	1405 .7	1540 1.4	1540 1.4
-	2245 3.2	2245 3.2	2245 3.2	2355 4.4	2355 4.4
CATCH					
- Sockeye N			1		
- Av. length			n/a		
- Av. weight			n/a		
- Age					
- Coho N					
- Chinook N					
- Chum N				3	
- Pink N					
- Steelhead N					
- Herring N				9	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP6	TP7	TP8	TP9	TP10
DATE		4/5/83	4/5/83	4/5/83	5/5/83	5/5/83
TIME (P.S.T.)		0530	0700	0830	0500	0700
LOCATION		Valdes Island	Valdes Island	Gabriola Reefs	Breakwater Island	Valdes Island
- Area		3.5 mi NW Detwiller Point	4 mi NW Detwiller Point	.5 mi E Thrasher Rock	Breakwater Island	4 mi NW Detwiller Point
- Map No.		3450	3450	3450	3450	3450
WEATHER						
- Water Temp. °C		10.8	10.6	11.3	11.0	12.1
- Sun		0	2	3	1	1
- Clouds - %		100	90	50	100	100
- type		3	3	1	3	3
- Visibility		5	5	5	5	5
- Wind - force		2	2	1	0	1
- direction		09	08	30	-	23
- Waves - height		2	2	1	0	0
- direction		09	08	25	-	-
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	.5 kn F	.5 kn F
- Tides -	PA	0655 3.2	0655 3.2	0655 3.2	0040 4.3	0040 4.3
-		0850 3.3	0850 3.3	0850 3.3	0750 3.0	0750 3.0
-		1625 1.6	1625 1.6	1625 1.6	1010 3.1	1010 3.1
-					1730 1.8	1730 1.8
CATCH						
- Sockeye N					115	471
- Av. length					87.47±1.10	82.88±.85
- Av. weight					5.91±.26	5.15±.19
- Age						
- Coho N						
- Chinook N		3 jacks		1	3	1
- Chum N						
- Pink N						
- Steelhead N						
- Herring N			1			
- Greenling N						
- Lingcod N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 11	TP 12	TP 13	TP 14	TP 15
DATE		9/5/83	9/5/83	10/5/83	10/5/83	10/5/83
TIME (P.S.T.)		1330	1530	0430	0545	0630
LOCATION		Bowen Island	Keats Island	Gambier Island	Gambier Island	Gambier Island
- Area		Cape Roger Curtis	Cotton Point	Avalon Point	Centre Bay	Gambier Point
- Map No.		3526	3526	3526	3526	3526
WEATHER						
- Water Temp. °C		13.2	13.4	11.6	12.4	12.9
- Sun		0	3	3	3	3
- Clouds - %		100	0	0	0	0
- type		3	-	-	-	-
- Visibility		5	5	4	5	5
- Wind - force		0	0	0	1	0
- direction		-	-	-	36	-
- Waves - height		0	0	0	0	0
- direction		-	-	-	-	-
- Rain - type		1	0	0	0	0
- duration		50	-	-	-	-
- Observed tide		nil	.5 kn E 15	nil	nil	nil
- Tides -	PA	0255 4.2	0255 4.2	0315 4.2	0315 4.2	0315 4.2
-		0935 1.9	0935 1.9	1010 1.5	1010 1.5	1010 1.5
-		1550 3.7	1550 3.7	1640 3.9	1640 3.9	1640 3.9
-		2120 2.3	2120 2.3	2205 2.5	2205 2.5	2205 2.5
CATCH						
- Sockeye N		1306	24		1	
- Av. length		95.46±1.39	96.75±1.21		91.00	
- Av. weight		9.01±.48	9.71±.42		7.06	
- Age						
- Coho N		12		1		
- Chinook N						
- Chum N			1	2		2
- Pink N						
- Steelhead N						
- Herring N		12	450 kg			
- Greenling N		12				
- Dogfish N					20	20

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 16	TP 17	TP 18	TP 19	TP 20
DATE	10/5/83	11/5/83	11/5/83	11/5/83	11/5/83
TIME (P.S.T.)	0745	0515	0645	0845	0945
LOCATION	Hutt Island	Bowen Island	Keats Island	Gibsons	Gibsons
- Area	.5 mi N Hutt Island	Smugglers Creek	.5 mi N Ragged Island	Chaster Creek	Smith Creek
- Map No.	3526	3526	3526	3579	3579
WEATHER					
- Water Temp. °C	12.2	12.7	13.4	13.5	13.6
- Sun	3	3	3	3	3
- Clouds - %	25	0	0	0	0
- type	2	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	3	0	0	1
- direction	-	36	0	0	24
- Waves - height	0	2	0	0	1
- direction	-	36	-	-	24
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	2 kn E 18	nil	nil	nil	nil
- Tides - PA	0315 4.2	0355 4.2	0355 4.2	0355 4.2	0355 4.2
-	1010 1.5	1030 1.1	1030 1.1	1030 1.1	1030 1.1
-	1640 3.9	1715 4.1	1715 4.1	1715 4.1	1715 4.1
-	2205 2.5	2255 2.7	2255 2.7	2255 2.7	2255 2.7
CATCH					
- Sockeye N		519	14		101
- Av. length		88.62±.93	95.14±1.62		95.50±1.45
- Av. weight		6.78±.21	8.99±.55		9.06±.44
- Age					
- Coho N					
- Chinook N		1		2 jack	2 jack
- Chum N	1	22	18		10
- Pink N			1		
- Steelhead N					
- Herring N		7	225 kg	larvae	larvae
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 21	TP 22	TP 23	TP 24	TP 25
DATE	11/5/83	11/5/83	12/5/83	12/5/83	12/5/83
TIME (P.S.T.)	1130	1230	0415	0530	0645
LOCATION	Sechelt Peninsula	Sechelt Peninsula	Sechelt Peninsula	Sechelt Peninsula	Sechelt Peninsula
- Area	Davis Bay	Sargeant Bay	Halfmoon Bay	Smuggler Cove	McNaughton Bay
- Map No.	3577	3577	3577	3577	3579
WEATHER					
- Water Temp. °C	13.8	15.0	13.7	13.9	14.0
- Sun	3	3	Dark	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	1	1	1	0	0
- direction	24	24	09	-	-
- Waves - height	1	1	0	0	0
- direction	24	24	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0355 4.2	0355 4.2	0415 4.2	0415 4.2	0415 4.2
-	1030 1.1	1030 1.1	1105 0.8	1105 0.8	1105 0.8
-	1715 4.1	1715 4.1	1800 4.3	1800 4.3	1800 4.3
-	2255 2.7	2255 2.7	2335 2.9	2435 2.9	2335 2.9
CATCH					
- Sockeye N	3	678	1	88	
- Av. length	100.67±8.74	89.20±1.25	96.00	88.80±.95	
- Av. weight	9.79±2.11	7.52±.36	8.16	7.05±.25	
- Age					
- Coho N					
- Chinook N	1		1		
- Chum N		4			
- Pink N			1		
- Steelhead N					
- Herring N		larvae	900 kg	2	
- Greenling N					
- Lamprey N	1				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 26	TP 27	TP 28	TP 29	TP 30
DATE	12/5/83	12/5/83	12/5/83	12/5/83	12/5/83
TIME (P.S.T.)	0715	0800	1000	1030	1100
LOCATION	Sechelt Peninsula	Sechelt Peninsula	Malaspina Strait	Texada Island	Texada Island
- Area	McNaughton Bay	Harness Island	3.5 mi NW Anderson Bay	Anderson Bay	Point Upwood
- Map No.	3579	3579	3579	3579	3579
WEATHER					
- Water Temp. °C	14.0	n/a	n/a	n/a	n/a
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	1
- direction	-	-	-	-	18
- Waves - height	0	0	0	0	1
- direction	-	-	-	-	18
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0415 4.2	0415 4.2	0415 4.2	0415 4.2	0415 4.2
-	1105 0.8	1105 0.8	1105 0.8	1105 0.8	1105 0.8
-	1800 4.3	1800 4.3	1800 4.3	1800 4.3	1800 4.3
-	2335 2.9	2335 2.9	2335 2.9	2335 2.9	2335 2.9
CATCH					
- Sockeye N	3		40	1	
- Av. length	98.33±3.53		102.43±.99	94.00	
- Av. weight	9.85±1.35		11.07±.33	8.65	
- Age					
- Coho N					
- Chinook N	1 jack				
- Chum N		1			
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 31	TP 32	TP 33	TP 34	TP 35
DATE	12/5/83	12/5/83	12/5/83	17/5/83	17/5/83
TIME (P.S.T.)	1200	1400	1500	0500	0545
LOCATION	Lasqueti Island	Parksville	Nanoose Bay	N. Pender Island	N. Pender Island
- Area	Squitty Bay	Northwest Bay	Wallis Point	Thieves Bay	Shingle Bay
- Map No.	3577	3577	3577	3441	3441
WEATHER					
- Water Temp. °C	n/a	n/a	n/a	10.2	10.1
- Sun	3	3	3	1	0
- Clouds - %	0	0	0	100	100
- type	-	-	-	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	2	0	2	1
- direction	-	09	-	14	18
- Waves - height	0	2	0	2	1
- direction	-	09	-	14	18
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides -	PA 0415 4.2	0415 4.2	0415 4.2	FH 0255 2.8	0255 2.8
-	1105 0.8	1105 0.8	1105 0.8	0555 2.9	0555 2.9
-	1800 4.3	1800 4.3	1800 4.3	1405 0.2	1405 0.2
-	2335 2.9	2335 2.9	2335 2.9	2240 3.4	2240 3.4
CATCH					
- Sockeye N				2	6
- Av. length				89.00±3.00	91.17±2.04
- Av. weight				6.62±1.68	7.38±.53
- Age					
- Coho N		2 jack			
- Chinook N			4 jack		1 jack
- Chum N		38	3		
- Pink N					
- Steelhead N					
- Herring N			larvae		
- Greenling N					
- Lamprey N	1				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 36	TP 37	TP 38	TP 39	TP 40
DATE		17/5/83	17/5/83	17/5/83	17/5/83	17/5/83
TIME (P.S.T.)		0630	0830	0930	1130	0415
LOCATION		Prevost Island	Stuart Island	Stuart Island	San Juan Island	San Juan Island
- Area		Ellen Bay	Turn Point	1 mi E Turn Point	Mosquito Passage	Friday Harbor
- Map No.		3442	3449	3449	3449	3449
WEATHER						
- Water Temp. °C		10.1	10.0	9.7	9.8	10.0
- Sun		0	0	0	0	1
- Clouds - %		100	100	100	100	75
- type		3	3	3	3	3
- Visibility		5	5	5	4	5
- Wind - force		1	1	0	1	0
- direction		14	14	-	14	-
- Waves - height		1	0	0	1	0
- direction		14	-	-	14	-
- Rain - type		0	0	0	1	0
- duration		-	-	-	100	-
- Observed tide		nil	2 kn E 21	1 kn E 09	back eddy	.5 kn F 18
- Tides -	FH	0255 2.8	0255 2.8	0255 2.8	0255 2.8	0445 2.7
-		0555 2.9	0555 2.9	0555 2.9	0555 2.9	0645 2.7
-		1405 0.2	1405 0.2	1405 0.2	1405 0.2	1455 0.5
-		2240 3.4	2240 3.4	2240 3.4	2240 3.4	2330 3.4
CATCH						
- Sockeye N						
- Av. length						
- Av. weight						
- Age						
- Coho N						
- Chinook N						
- Chum N						
- Pink N						
- Steelhead N						
- Herring N		1			1	
- Greenling N						
- Lingcod N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 41	TP 42	TP 43	TP 44	TP 45
DATE		18/5/83	18/5/83	18/5/83	18/5/83	19/5/83
TIME (P.S.T.)		0600	0730	0830	1300	0415
LOCATION		San Juan Island	Lopez Island	Orcas Island	Moresby Island	S. Pender Island
- Area		Turn Rock	Shoal Bay	Buck Bay	Pelorus Point	Bedwell Harbour
- Map No.		3449	3449	3449	3450	3450
WEATHER						
- Water Temp. °C		10.0	10.5	n/a	10.5	11.5
- Sun		3	3	3	3	0
- Clouds - %		50	75	50	10	50
- type		3	3	3	2	2
- Visibility		5	5	5	5	5
- Wind - force		0	0	2	1	0
- direction		-	-	27	12	-
- Waves - height		0	0	2	1	0
- direction		-	-	27	12	-
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	.5 kn E 33	nil
- Tides -	FH	0445 2.7	0445 2.7	0445 2.7	0445 2.7	0615 2.5
-		0645 2.7	0645 2.7	0645 2.7	0645 2.7	0800 2.5
-		1455 0.5	1455 0.5	1455 0.5	1455 0.5	1555 0.8
-		2330 3.4	2330 3.4	2330 3.4	2330 3.4	
CATCH						
- Sockeye N						2399
- Av. length						94.46±1.14
- Av. weight						8.26±.33
- Age						
- Coho N						2
- Chinook N						
- Chum N						
- Pink N						
- Steelhead N						
- Herring N				20		100 kg
- Greenling N						
- Lingcod N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TC 46	TC 47	TC 48	TC 49	TC 50
DATE	19/5/83	19/5/83	19/5/83	19/5/83	19/5/83
TIME (P.S.T.)	0630	0800	0845	1030	1115
LOCATION	N. Pender Island	Galiano Island	Galiano Island	Trincomali Channel	Valdes Island
- Area	Hope Bay	Montague Harbor	Wise Island	Hall Island	Blackberry Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	11.1	11.1	11.5	11.7	11.7
- Sun	1	0	1	1	1
- Clouds - %	100	100	100	100	100
- type	2	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	0
- direction	-	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - FH	0615 2.5	0615 2.5	0615 2.5	0610 3.2	0610 3.2
-	0800 2.5	0800 2.5	0800 2.5	0930 3.4	0930 3.4
-	1555 0.8	1555 0.8	1555 0.8	1645 1.3	1645 1.3
CATCH					
- Sockeye N					2
- Av. length					97.00±6.00
- Av. weight					9.69±1.57
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N			1		10
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TC 51	TC 52	TC 53	TC 54	TC 55
DATE	24/5/83	24/5/83	24/5/83	24/5/83	25/5/83
TIME (P.S.T.)	1300	1330	1445	1530	0430
LOCATION	Lasqueti Island	Texada Island	Malaspina Strait	Nelson Island	Pender Harbor
- Area	Squitty Bay	Point Upwood	2.5 mi NE Point Upwood	Hodgson Island	Donnelly Landing
- Map No.	3577	3577	3579	3579	3579
WEATHER					
- Water Temp. °C	15.5	16.3	15.8	16.3	14.2
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	0	2	2	0
- direction	-	-	15	15	-
- Waves - height	0	0	1	1	0
- direction	-	-	15	15	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0305 4.5	0305 4.5	0305 4.5	0305 4.5	0340 4.4
-	1005 1.2	1005 1.2	1005 1.2	1005 1.2	1030 0.9
-	1655 4.1	1655 4.1	1655 4.1	1655 4.1	1750 4.3
-	2200 2.9	2200 2.9	2200 2.9	2200 2.9	2250 3.1
CATCH					
- Sockeye N	1		48	916	2
- Av. length	115.00		106.58±1.38	90.12±.98	97.05±3.50
- Av. weight	18.14		13.53±.50	7.90±.29	8.95±.39
- Age					
- Coho N					
- Chinook N					5
- Chum N	1			10	29
- Pink N					
- Steelhead N					
- Herring N					22 kg
- Greenling N					
- Dogfish N				20	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 56	TP 57	TP 58	TP 59	TP 60
DATE	25/5/83	25/5/83	25/5/83	25/5/83	25/5/83
TIME (P.S.T.)	0600	0645	0845	1045	1130
LOCATION	Nelson Island	Nelson Island	Stillwater	Texada Island	Harwood Island
- Area	Cape Cockburn	Blind Bay	Stillwater Bay	Blubber Bay	Southern Point
- Map No.	3579	3579	3579	3579	3579
WEATHER					
- Water Temp. °C	15.7	16.2	13.8	15.9	15.9
- Sun	3	2	3	3	3
- Clouds - %	0	75	25	0	0
- type	-	1	1	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	2	0	0	1
- direction	-	27	-	-	24
- Waves - height	0	2	0	0	1
- direction	-	27	-	-	24
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn F 15	nil	nil	nil
- Tides - PA	0340 4.4	0340 4.4	0340 4.4	0340 4.4	0340 4.4
-	1030 0.9	1030 0.9	1030 0.9	1030 0.9	1030 0.9
-	1750 4.3	1750 4.3	1750 4.3	1750 4.3	1750 4.3
-	2250 3.1	2250 3.1	2250 3.1	2250 3.1	2250 3.1
CATCH					
- Sockeye N		15	1210		
- Av. length		96.67±2.49	92.76±1.02		
- Av. weight		9.17±.70	8.53±.39		
- Age					
- Coho N					
- Chinook N				1	
- Chum N		18			
- Pink N					
- Steelhead N					
- Herring N	220 kg	450 kg	20±		
- Greenling N					
- Dogfish N	3				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 61	TP 62	TP 63	TP 64	TP 65
DATE		25/5/83	25/5/83	26/5/83	26/5/83	26/5/83
TIME (P.S.T.)		1215	1315	0445	0530	0600
LOCATION		Lund	Lund	Cortes Island	Twin Island	Hernando Island
- Area		Dinner Rock	Copeland Island	Mary Point	Iron Point	Spillsbury Point
- Map No.		3579	3579	3579	3591	3591
WEATHER						
- Water Temp. °C		16.6	15.2	15.5	14.9	14.8
- Sun		3	2	1	3	3
- Clouds - %		0	50	50	25	10
- type		-	2	3	2	2
- Visibility		5	5	5	5	5
- Wind - force		0	2	2	2	3
- direction		-	13	27	27	27
- Waves - height		0	2	2	1	2
- direction		-	13	27	27	27
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	nil	nil
- Tides -	PA	0340 4.4	0340 4.4	0405 4.3	0405 4.3	0405 4.3
-		1030 0.9	1030 0.9	1105 0.7	1105 0.7	1105 0.7
-		1750 4.3	1750 4.3	1840 4.5	1840 4.5	1840 4.5
-		2250 3.1	2250 3.1	2345 3.2	2345 3.2	2345 3.2
CATCH						
- Sockeye N		184	1	107	3	
- Av. length		109.96±.56	110.00	115.06±1.03	106.00±2.52	
- Av. weight		14.80±.27	15.47	16.06±.48	13.19±.97	
- Age						
- Coho N						
- Chinook N						
- Chum N				10		
- Pink N						
- Steelhead N						
- Herring N						
- Greenling N						
- Dogfish N					6	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 66	TP 67	TP 68	TP 69	TP 70
DATE	26/5/83	26/5/83	30/5/83	30/5/83	30/5/83
TIME (P.S.T.)	0730	0830	1300	1345	1545
LOCATION	Cortes Island	Cortes Island	Quadra Island	Quadra Island	Quadra Island
- Area	Manson Landing	Subtle Island	Cape Mudge	Cape Mudge	Rebecca Spit
- Map No.	3591	3591	3591	3591	3591
WEATHER					
- Water Temp. °C	14.5	13.5	14.0	14.0	17.0
- Sun	3	3	2	2	2
- Clouds - %	0	0	100	100	75
- type	-	-	2	2	1
- Visibility	5	5	5	5	5
- Wind - force	1	1	0	0	1
- direction	27	27	-	-	27
- Waves - height	1	1	0	0	1
- direction	27	27	-	-	27
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	.5 kn F 36
- Tides -	PA 0405 4.3	0405 4.3	CR 0245 3.3	0245 3.3	0245 3.3
-	1105 0.7	1105 0.7	0520 3.6	0520 3.6	0520 3.6
-	1840 4.5	1840 4.5	1345 0.8	1345 0.8	1345 0.8
-	2345 3.2	2345 3.2	2050 4.1	2050 4.1	2050 4.1
CATCH					
- Sockeye N	131		1	37	34
- Av. length	98.66±2.04		69.00	115.27±1.47	113.29±1.56
- Av. weight	11.04±.66		3.28	16.56±.63	15.57±.73
- Age					
- Coho N				1 adult	
- Chinook N		1		2	
- Chum N				12	
- Pink N					
- Steelhead N				15 (6 tags)	
- Herring N	6				450 kg
- Greenling N					
- Dogfish N	25				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 71	TP 72	TP 73	TP 74	TP 75
DATE		30/5/83	31/5/83	31/5/83	31/5/83	31/5/83
TIME (P.S.T.)		1715	0430	0600	0730	0830
LOCATION		Hoskyn Channel	Reed Island	Raza Passage	Raza Island	Cortes Island
- Area		Sheer Point	Whiterock Passage	Francis Bay	1.5 mi NW Redonda Bay	Von Donop Inlet
- Map No.		3594	3594	3594	3594	3594
WEATHER						
- Water Temp. °C		16.3	13.7	13.5	15.2	15.2
- Sun		2	0	0	1	1
- Clouds - %		100	100	100	100	100
- type		2	3	3	3	3
- Visibility		5	5	5	5	5
- Wind - force		1	1	2	1	2
- direction		27	27	31	22	27
- Waves - height		1	0	1	1	2
- direction		27	-	31	18	27
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	1 kn F 18	nil	nil	nil
- Tides -	CR	0245 3.3	0345 3.3	0345 3.3	0345 3.3	0345 3.3
-		0520 3.6	0555 3.5	0550 3.6	0550 3.6	0550 3.6
-		1345 0.8	1420 1.0	1420 1.0	1420 1.0	1420 1.0
-		2050 4.1	2130 4.1	2130 4.1	2130 4.1	2130 4.1
CATCH						
- Sockeye N		1	104	418	106	44
- Av. length		101.00	109.67±1.44	109.14±.94	96.31±.91	106.73±1.30
- Av. weight		12.21	14.33±.76	13.53±.34	9.53±.30	12.98±.50
- Age						
- Coho N				1 adult		3
- Chinook N						
- Chum N		5	19	5	1	10
- Pink N						
- Steelhead N						
- Herring N				50		
- Greenling N						
- Dogfish N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 76	TP 77	TP 78	TP 79	TP 80
DATE	31/5/83	01/6/83	01/6/83	01/6/83	01/6/83
TIME (P.S.T.)	0945	0530	0645	0730	0845
LOCATION	Read Island	W. Redonda Island	W. Redonda Island	Homfray Channel	Homfray Channel
- Area	Evans Bay	Refuge Cove	Roscoe Bay	Price Point	Forbes Bay
- Map No.	3594	3594	3594	3594	3594
WEATHER					
- Water Temp. °C	16.0	16.7	17.2	17.1	16.5
- Sun	2	1	0	0	0
- Clouds - %	2	3	100	100	100
- type	50	100	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	2	2	1	0	0
- direction	27	22	22	-	-
- Waves - height	1	1	1	0	0
- direction	27	22	22	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 22	<.5 kn E 22	nil	nil	nil
- Tides - CR	0345 3.3	0510 3.2	0510 3.2	0510 3.2	0510 3.2
-	0550 3.6	0640 3.2	0640 3.2	0640 3.2	0640 3.2
-	1420 1.0	1440 1.2	1440 1.2	1440 1.2	1440 1.2
-	2130 4.1	2215 4.1	2215 4.1	2215 4.1	2215 4.1
CATCH					
- Sockeye N		2	1	2	
- Av. length		122.00±14.00	81.00	85.50±17.50	
- Av. weight		18.22±4.61	6.50	6.54±3.74	
- Age					
- Coho N					
- Chinook N					
- Chum N	10	55	24	72	1
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					
- Dogfish N					30

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 81	TP 82	TP 83	TP 84	TP 85
DATE		01/6/83	01/6/83	02/6/83	02/6/83	02/6/83
TIME (P.S.T.)		0945	1100	0430	0515	0630
LOCATION		Channel Island	Pryce Channel	Sonora Island	Quadra Island	Quadra Island
- Area		Toba Inlet	Glouchester Point	Barnes Bay	Chonat Bay	Kanish Bay
- Map No.		3594	3594	3594	3594	3594
WEATHER						
- Water Temp. °C		14.2	14.7	10.6	10.5	12.2
- Sun		0	0	0	0	0
- Clouds - %		100	100	100	100	100
- type		3	3	3	3	3
- Visibility		5	5	5	5	5
- Wind - force		1	0	1	2	2
- direction		18	-	22	22	27
- Waves - height		1	0	1	1	2
- direction		18	-	22	22	27
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		.5 kn E 12	<.5 kn E 09	nil	nil	nil
- Tides -	CR	0510 3.2	0510 3.2	0200 2.9	0200 2.9	0200 2.9
-		0640 3.2	0640 3.2	0550 3.0	0550 3.0	0550 3.0
-		1440 1.2	1440 1.2	1355 1.2	1355 1.2	1355 1.2
-		2215 4.1	2215 4.1	2125 3.5	2125 3.5	2125 3.5
CATCH						
- Sockeye N		11	283	49		3
- Av. length		104.50±2.09	101.44±1.21	116.90±1.04		109.33±2.91
- Av. weight		10.85±.73	10.60±.41	16.44±.48		12.44±1.43
- Age						
- Coho N		2	3		2	4
- Chinook N		1		3		2
- Chum N		16	46	45		1
- Pink N						
- Steelhead N						
- Herring N		90 kg	90 kg			
- Greenling N						
- Dogfish N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TC 86	TC 87	TC 88	TC 89	TC 90
DATE	24/5/83	24/5/83	24/5/83	24/5/83	25/5/83
TIME (P.S.T.)	0900	1415	1500	0430	0530
LOCATION	Discovery Passage	Quadra Island	Quadra Island	Discovery Passage	West Thurlow Island
- Area	Menzies Bay	Plumper Bay	Deepwater Bay	Walkem Island	Knox Bay
- Map No.	3594	3594	3594	3594	3566
WEATHER					
- Water Temp. °C	10.9	10.9	10.8	10.4	10.5
- Sun	0	3	3	2	3
- Clouds - %	100	75	50	0	0
- type	3	2	2	-	-
- Visibility	5	5	5	5	5
- Wind - force	1	4	4	0	0
- direction		27	27	-	-
- Waves - height	0	2	3	0	0
- direction	-	27	27	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	back eddy	nil	nil	1 kn E 33	.5 kn E 33
- Tides - CR	0600 3.0	0050 4.1	0050 4.1	0650 1.5	0650 1.5
-	0730 3.0	0855 1.9	0855 1.9	1250 3.0	1250 3.0
-	1525 1.5	1405 3.2	1405 3.2	1750 2.2	1750 2.2
-	2315 4.1	1845 2.5	1845 2.5		
CATCH					
- Sockeye N				81	
- Av. length				109.30±1.84	
- Av. weight				13.81±.81	
- Age					
- Coho N		20	1 adult 1 juv.	1	2 (1 tag)
- Chinook N					
- Chum N				9	1
- Pink N				2	
- Steelhead N					
- Herring N					22 kg
- Greenling N					
- Dogfish N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 91	TP 92	TP 93	TP 94	TP 95
DATE		07/6/83	07/6/83	07/6/83	07/6/83	07/6/83
TIME (P.S.T.)		0600	0715	0800	0900	0930
LOCATION		W. Thurlow Island	W. Thurlow Island	W. Thurlow Island	Chancellor Channel	Loughbrough Inlet
- Area		Knox Bay	Vere Cove	Shorter Pt. Point	Fittleton Point	Styles Pt. Point
- Map No.		3566	3566	3566	3566	3566
WEATHER						
- Water Temp. °C		10.5	11.8	12.4	13.4	14.8
- Sun		3	3	3	3	3
- Clouds - %		50	25	25	0	0
- type		3	2	2	-	-
- Visibility		5	5	5	5	5
- Wind - force		0	1	2	2	2
- direction		-	27	27	22	18
- Waves - height		0	1	1	1	1
- direction		-	27	27	22	18
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	.5 kn E 27	.5 kn E 30	nil
- Tides -	OB	0650 1.5	0650 1.5	0650 1.5	0650 1.5	CR 0125 4.1
-		1250 3.0	1250 3.0	1250 3.0	1250 3.0	0925 1.5
-		1750 2.2	1750 2.2	1750 2.2	1750 2.2	1505 3.4
-						1920 2.8
CATCH						
- Sockeye N		2				306
- Av. length		n/a				n/a
- Av. weight		n/a				n/a
- Age						
- Coho N		5 (1 tag)				6
- Chinook N						
- Chum N						25
- Pink N						
- Steelhead N						
- Herring N						
- Greenling N						
- Dogfish N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 96	TP 97	TP 98	TP 99	TP 100
DATE	07/6/83	07/6/83	07/6/83	08/6/83	08/6/83
TIME (P.S.T.)	1100	1200	1300	0600	0630
LOCATION	Loughborough Inlet	W. Thurlow Island	Thurlow Island	E. Thurlow Island	E. Thurlow Island
- Area	Beaver Inlet	Tucker Point	Blind Channel	Erasmus Island Point	Crawford Anchorage
- Map No.	3566	3566	3566	3566	3566
WEATHER					
- Water Temp. °C	16.2	14.8	14.0	11.5	11.5
- Sun	3	3	3	1	1
- Clouds - %	0	0	0	100	100
- type	-	-	-	3	3
- Visibility	5	5	5	5	5
- Wind - force	2	3	2	0	0
- direction	20	22	24	-	-
- Waves - height	1	2	1	0	0
- direction	20	22	24	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	2 kn E 27	.5 kn E 22
- Tides - CR	0125 4.1	0125 4.1	0125 4.1	0150 4.1	0150 4.1
-	0925 1.5	0925 1.5	0925 1.5	0955 1.0	0955 1.0
-	1505 3.4	1505 3.4	1505 3.4	1555 3.7	1555 3.7
-	1920 2.8	1920 2.8	1920 2.8	2015 3.0	2015 3.0
CATCH					
- Sockeye N					9
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N	3			1	1
- Chinook N					
- Chum N		1			70
- Pink N					15
- Steelhead N					
- Herring N					10
- Greenling N					
- Dolly varden N					3

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 101	TP 102	TP 103	TP 104	TP 105
DATE	08/6/83	08/6/83	08/6/83	08/6/83	08/6/83
TIME (P.S.T.)	0730	0830	0900	0930	1015
LOCATION	E. Thurlow Island	Phillip Arm	E. Thurlow Island	Cordero Channel	Cordero Channel
- Area	Crawford Anchorage	Picton Point	Shoal Bay	Channe Island	Gomer Island
- Map No.	3566	3522	3522	3522	3522
WEATHER					
- Water Temp. °C	12.0	15.0	13.4	12.5	n/a
- Sun	3	3	3	3	3
- Clouds - %	75	50	50	50	50
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	4	2	0	1	1
- direction	-	18	-	18	21
- Waves - height	0	1	0	0	0
- direction	-	18	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	Tide line	nil	1 kn F 36	<.5 kn F 09
- Tides - CR	0150 4.1	0150 4.1	0150 4.1	0150 4.1	0150 4.1
-	0955 1.0	0955 1.0	0955 1.0	0955 1.0	0955 1.0
-	1555 3.7	1555 3.7	1555 3.7	1555 3.7	1555 3.7
-	2015 3.0	2015 3.0	2015 3.0	2015 3.0	2015 3.0
CATCH					
- Sockeye N	18	1	3	1	
- Av. length	n/a	n/a	n/a	n/a	
- Av. weight	n/a	n/a	n/a	n/a	
- Age					
- Coho N		2			1
- Chinook N					
- Chum N	105	1			
- Pink N	22				
- Steelhead N		2			
- Herring N					
- Greenling N					
- Dolly varden N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 106	TP 107	TP 108	TP 109	TP 110
DATE		08/6/83	08/6/83	08/6/83	08/6/83	08/6/83
TIME (P.S.T.)		1100	1145	1215	1245	1330
LOCATION		Nodales Channel	Nodales Channel	Nodales Channel	Nodales Channel	Nodales Channel
- Area		Sonora Point	Lee Island	Block Island	Hardinge Island	Howe Island
- Map No.		3522	3522	3522	3522	3522
WEATHER						
- Water Temp. °C		13.0	12.8	14.0	12.0	12.0
- Sun		3	2	2	3	2
- Clouds - %		50	50	50	50	50
- type		2	2	2	2	2
- Visibility		5	5	5	5	5
- Wind - force		0	1	1	1	1
- direction		-	18	18	27	27
- Waves - height		0	1	0	1	1
- direction		-	18	-	27	27
- Rain - type		0	0	0	0	
- duration		-	-	-	-	-
- Observed tide		back eddy	nil	nil	nil	back eddy
- Tides -	CR	0150 4.1	0150 4.1	0150 4.1	0150 4.1	0150 4.1
-		0955 1.0	0955 1.0	0955 1.0	0955 1.0	0955 1.0
-		1555 3.7	1555 3.7	1555 3.7	1555 3.7	1555 3.7
-		2015 3.0	2015 3.0	2015 3.0	2015 3.0	2015 3.0
CATCH						
- Sockeye N		8				
- Av. length		n/a				
- Av. weight		n/a				
- Age						
- Coho N		1	5 (1 tag)	6 (1 tag)		1
- Chinook N		1 (tag)		3 (1 tag)		
- Chum N				1		
- Pink N		22				
- Steelhead N		1	1			
- Herring N						
- Greenling N						
- Dolly varden N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke/K. Groot

SET NO.	TP 111	TP 112	TP 113	TP 114	TP 115
DATE	13/6/83	13/6/83	14/6/83	14/6/83	14/6/83
TIME (P.S.T.)	1430	1515	0430	0505	0535
LOCATION	S. Pender Island	S. Pender Island	San Juan Island	Shaw Island	Shaw Island
- Area	Bedwell Harbor	Bedwell Harbor	Friday Harbor	Parks Bay	Hicks Bay
- Map No.	3450	3450	3449	3449	3449
WEATHER					
- Water Temp. °C	12.2	11.0	10.8	11.2	11.5
- Sun	3	3	2	0	2
- Clouds - %	25	25	100	100	80
- type	2	2	3	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	0	0	1	1
- direction	12	-	-	27	27
- Waves - height	0	0	0	1	1
- direction	-	-	-	27	27
- Rain - type	2	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	slight F 30	nil	slight F	slight F
- Tides - FH	0025 2.9	0025 2.9	0135 2.9	0135 2.9	0135 2.9
-	0350 3.1	0350 3.1	0450 3.0	0450 3.0	0450 3.0
-	1210 -.2	1210 -.2	1250 .0	1250 .0	1250 .0
-	2045 3.5	2045 3.5	2125 3.5	2125 3.5	2125 3.5
CATCH					
- Sockeye N	1				
- Av. length	n/a				
- Av. weight	n/a				
- Age					
- Coho N	19				
- Chinook N	6				
- Chum N	10			1	
- Pink N					
- Steelhead N					
- Herring N	100±			50±	50±
- Greenling N					
- Dolly varden N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke/K. Groot

SET NO.	TP 116	TP 117	TP 118	TP 119	TP 120
DATE	14/6/83	14/6/83	14/6/83	14/6/83	14/6/83
TIME (P.S.T.)	0620	0730	0800	0910	1005
LOCATION	Lopez Island	Lopez Island	Lopez Island	Lopez Island	Lopez Island
- Area	Fishermans Bay	Iceberg Point	Iceberg Point	Watmough Bay	Lopez Sound
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	11.5	10.8	10.8	11.1	12.5
- Sun	2	1	2	3	2
- Clouds - %	80	80	70	60	80
- type	3	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	0
- direction	-	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - FH	0135 2.9	0135 2.9	0135 2.9	0135 2.9	0135 2.9
-	0450 3.0	0450 3.0	0450 3.0	0450 3.0	0450 3.0
-	1250 .0	1250 .0	1250 .0	1250 .0	1250 .0
-	2125 3.5	2125 3.5	2125 3.5	2125 3.5	2125 3.5
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N	1	1		1	
- Chum N					32
- Pink N					
- Steelhead N					
- Herring N		larvae	larvae		30 adult
- Greenling N					
- Dolly varden N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke/K. Groot

SET NO.		TP 121	TP 122	TP 123	TP 124	TP 125
DATE		14/6/83	14/6/83	14/6/83	15/6/83	15/6/83
TIME (P.S.T.)		1045	1155	1225	0545	0700
LOCATION		Lopez Island	Shaw Island	Orcas Island	Sidney Island	Cordova Bay
- Area		Lopez Sound Bay	Harvey Channel	West Sound	Wymond Point Bay	Cormorant Point
- Map No.		3449	3449	3449	3449	3449
WEATHER						
- Water Temp. °C		12.5	12.8	12.8	11.2	11.8
- Sun		1	1	1	2	3
- Clouds - %		100	100	100	75	10
- type		2	3	3	2	2
- Visibility		5	5	5	5	5
- Wind - force		0	0	0	2	2
- direction		-	-	-	18	27
- Waves - height		0	0	0	0	0
- direction		-	-	-	18	27
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		.5 kn F 18	nil	nil	nil	nil
- Tides -	FH	0135 2.9	0135 2.9	0135 2.9	0300 2.7	0300 2.7
-		0450 3.0	0450 3.0	0450 3.0	0550 2.8	0550 2.8
-		1250 .0	1250 .0	1250 .0	1340 .3	1340 .3
-		2125 3.5	2125 3.5	2125 3.5	2205 3.5	2205 3.5
CATCH						
- Sockeye N						
- Av. length						
- Av. weight						
- Age						
- Coho N						
- Chinook N			6			1
- Chum N		2	32	7	2	
- Pink N						
- Steelhead N						
- Herring N		30 adult	20 adult	20 adult	2	2 adult 20 kg larvae
- Dogfish N		1		10		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 126	TP 127	TP 128	TP 129	TP 130
DATE	15/6/83	12/7/83	12/7/83	12/7/83	12/7/83
TIME (P.S.T.)	0830	0815	0930	1015	1115
LOCATION	James Island	St. Georgia	Gabriola Reefs	Gabriola Reefs	St. Georgia
- Area	James Island Light	Entrance Island	Thrasher Rock	2 mi NE Thrasher Rock	9 mi W Sand Heads
- Map No.	3449	3577	3577	3577	3577
WEATHER					
- Water Temp. °C	12.0	12.8	13.5	13.5	13.8
- Sun	3	2	1	1	0
- Clouds - %	10	90	100	100	100
- type	2	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	2	2	1	2	2
- direction	27	27	30	30	12
- Waves - height	2	1	1	1	2
- direction	27	9	30	30	12
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	slight E 09	nil	nil	Fraser surface
- Tides - FH	0300 2.7	0045 3.4	0045 3.4	0045 3.4	flow 30
-	0550 2.8	0520 4.3	0520 4.3	0520 4.3	slight E 12
-	1340 .3	1235 .1	1235 .1	1235 .1	
-	2205 3.5	2010 4.8	2010 4.8	2010 4.8	
CATCH					
- Sockeye N			2		
- Av. length					
- Av. weight					
- Age					
- Coho N		2		1	2
- Chinook N					1
- Chum N		2	2		
- Pink N					
- Steelhead N					
- Herring N	1 adult 10 kg larvae				
- Lamprey N					1

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 131	TP 132	TP 133	TP 134	TP 135
DATE	15/6/83	12/7/83	12/7/83	13/7/83	13/7/83
TIME (P.S.T.)	1300	1400	1500	0500	0630
LOCATION	Bowen Island	Bowen Island	Bowen Island	Keats Island	Gambier Island
- Area	Seymour Bay	Mannion Bay	Smuggler Cove	Plumper Cove	Grace Island
- Map No.	3526	3526	3526	3526	3526
WEATHER					
- Water Temp. °C	17.0	17.2	16.8	16.0	16.0
- Sun	1	0	0	0	0
- Clouds - %	100	100	100	100	100
- type	3	3	3	3	3
- Visibility	5	5	5	4	4
- Wind - force	0	2	3	0	0
- direction	-	13	27	-	-
- Waves - height	0	1	1	0	0
- direction	-	13	27	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	Fraser flow 30	nil	nil	nil	nil
- Tides - PA	0045 3.4	0045 3.4	0045 3.4	0135 3.3	0135 3.3
-	0520 4.3	0520 4.3	0520 4.3	0615 4.1	0615 4.1
-	1235 .1	1235 .1	1235 .1	1320 .4	1320 .4
-	2010 4.8	2010 4.8	2010 4.8	2045 4.8	2045 4.8
CATCH					
- Sockeye N	7	5	1	6	
- Av. length	n/a	n/a	n/a	n/a	
- Av. weight	n/a	n/a	n/a	n/a	
- Age					
- Coho N	18	10	2	6	3
- Chinook N	20	18	6	10	15
- Chum N			1		
- Pink N					
- Steelhead N					
- Herring N		20 kg juv.			
- Lamprey N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 136	TP 137	TP 138	TP 139	TP 140
DATE	13/7/83	14/7/83	14/7/83	14/7/83	14/7/83
TIME (P.S.T.)	0630	0430	0515	0645	0730
LOCATION	Bowen Island	Gabriola Island	Gabriola Reefs	Trincomali Channel	Trincomali Channel
- Area	Hutt Island	Breakwater Island	1 mi E Thrasher Rock	Hall Island	Reid Island
- Map No.	3526	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	n/a	12.5	11.9	14.2	14.8
- Sun	0	0	0	3	3
- Clouds - %	100	100	100	50	50
- type	3	3	3	3	3
- Visibility	5	5	5	4	4
- Wind - force	3	0	0	0	0
- direction	13	-	-	-	-
- Waves - height	1	0	0	0	0
- direction	13	-	-	-	-
- Rain - type	0	0	0	0	1
- duration	-	-	-	-	25
- Observed tide	2 kn E 22	nil	nil	slack	nil
- Tides -	PA 0135 3.3	0235 3.0	0235 3.0	FH 0215 2.5	0235 3.0
-	0615 4.1	0720 2.9	0720 2.9	0605 2.8	0720 2.9
-	1320 .4	1405 .9	1405 .9	1315 .5	1405 .9
-	2045 4.8	2130 4.8	2130 4.8	2110 3.5	2130 4.8
CATCH					
- Sockeye N	2				
- Av. length	n/a				
- Av. weight	n/a				
- Age					
- Coho N	3	3			
- Chinook N	5			1	1 adult
- Chum N		1	1	12	
- Pink N					
- Steelhead N					
- Herring N		90 kg juv.			
- Lamprey N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		TP 141	TP 142
DATE		14/7/83	14/7/83
TIME (P.S.T.)		0815	0845
LOCATION		Valdes Island	Valdes Island
- Area		Blackberry Point	2 mi W Blackberry Point
- Map No.		3526	3450
WEATHER			
- Water Temp. °C		15.5	15.5
- Sun		3	3
		50	50
- type		2	2
- Visibility		5	5
- Wind - force		0	0
- direction		-	-
- Waves - height		0	0
- direction		-	-
- Rain - type		0	0
- duration		-	-
- Observed tide		nil	nil
- Tides -	FH	0215 2.5	0215 2.5
-		0605 2.8	0605 2.8
-		1315 .5	1315 .5
-		2110 3.5	2110 3.5
CATCH			
- Sockeye N			
- Av. length			
- Av. weight			
- Age			
- Coho N		3	5
- Chinook N			
- Chum N		13	1
- Pink N			
- Steelhead N			
- Herring N			20 kg juv.
- Lamprey N			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 1	CP 2	CP 3	CP 4	CP 5
DATE	2/5/83	2/5/83	3/5/83	3/5/83	3/5/83
TIME (P.S.T.)	1330	1425	0550	0835	0925
LOCATION	Valdes Island	Valdes Island	Valdes Island	De Courcy Group	Stuart Channel
- Area	Dibuxante Point	Dibuxante Point	Dibuxante Point	Link Island	Reynolds Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	11.3	11.7	10.2	12.4	12.6
- Sun	3	1	1	1	2
- Clouds - %	50	75	100	80	60
- type	2-3	3	2-3	2-3	2-3
- Visibility	5	5	5	5	5
- Wind - force	1	1	1	0	0
- direction	9	9	16	-	-
- Waves - height	1	1	1	0	0
- direction	9	9	16	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn F 09	1 kn F 09	nil	nil	nil
- Tides -	FH 0345 2.7	0345 2.7	0330 2.7	0330 2.7	0330 2.7
-	0550 2.7	0550 2.7	0745 2.5	0745 2.5	0745 2.5
-	1405 2.7	1405 2.7	1455 .9	1455 .9	1455 .9
-	2245 3.2	2245 3.2	2350 3.2	2350 3.2	2350 3.2
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N			larvae	larvae	larvae
- Greenling N			5 larvae		
- Lingcod N			12 larvae	1000 larvae	800 larvae

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 6	CP 7	CP 8	CP 9	CP 10
DATE	4/5/83	2/5/83	3/5/83	3/5/83	3/5/83
TIME (P.S.T.)	0550	0650	0815	0930	1050
LOCATION	Valdes Island	Valdes Island	Galiano Island	Galiano Island	Galiano Island
- Area	Detwiller Point	1 mi S Detwiller Point	1 mi S Dionisio Point	5 mi W Salamanca Point	Salamanca Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	10.6	10.5	10.3	11.6	11.6
- Sun	2	1	2	2	3
- Clouds - %	90	90	40	30	20
- type	2-3	3	2-3	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	1	1	1	1
- direction	8	7	7	7	7
- Waves - height	1	1	1	1	1
- direction	8	7	7	7	7
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 15	<.5 kn F 15	<.5 kn E 30	<.5 kn E 30	<.5 kn E 12
- Tides - PA	0655 3.2	0655 3.2	0655 3.2	0655 3.2	0655 3.2
-	0850 3.3	0850 3.3	0850 3.3	0850 3.3	0850 3.3
-	1625 1.6	1625 1.6	1625 1.6	1625 1.6	1625 1.6
-					
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					4 adult
- Chinook N					1 jack
- Chum N					
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					
- Lingcod N	23 larvae				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 11	CP 12	CP 13	CP 14	CP 15
DATE	5/5/83	5/5/83	5/5/83	11/5/83	11/5/83
TIME (P.S.T.)	0630	0720	0900	0955	1140
LOCATION	Trincomali Channel	Trincomali Channel	Valdes Island	De Courcy Group	Valdes Island
- Area	Wallace Island	Hall Island	Blackberry Point	Link Island	Blackberry Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	10.4	11.6	13.0	12.5	11.8
- Sun	0	0	0	3	3
- Clouds - %	20	100	100	0	0
- type	3	3	3	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	1	0	0	0
- direction	-	16	-	-	-
- Waves - height	0	1	0	0	0
- direction	-	16	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn E 10	nil	nil	<.5 kn F 33
- Tides - FH	0035 3.2	0035 3.2	0035 3.2	0300 3.0	0300 3.0
-	0600 2.4	0600 2.4	0600 2.4	0950 .8	0950 .8
-	1015 2.2	1015 2.2	1015 2.2	1710 2.9	1710 2.9
-	1645 1.2	1645 1.2	1645 1.2	2200 2.1	2200 2.1
CATCH					
- Sockeye N	3				15
- Av. length	n/a				n/a
- Av. weight	n/a				n/a
- Age					
- Coho N					4 adult
- Chinook N			4 jack	6 jack	1 jack
- Chum N				1	4
- Pink N					
- Steelhead N				1 (tag)	
- Herring N			larvae	50 adult	larvae
- Greenling N					
- Lingcod N	23 larvae	12 larvae	100 larvae	200	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 16	CP 17	CP 18	CP 19	CP 20
DATE	11/5/83	11/5/83	12/5/83	12/5/83	12/5/83
TIME (P.S.T.)	1235	1415	0450	0555	1000
LOCATION	Valdes Island	Thetis Island	Trincomali Channel	Galiano Island	Valdes Island
- Area	Rock Bluff	Pilkey Point	Wallace Island	1.5 mi SE Spotlight Cove	Shah Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	12.2	15.0	9.7	10.0	14.1
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	2
- direction	-	-	-	-	30
- Waves - height	0	0	0	0	2
- direction	-	16	-	-	30
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 30	<.5 kn F 20	1 kn E 11	<.5 kn E 11	nil
- Tides - FH	0300 3.0	0300 3.0	0315 3.0	0315 3.0	0425 4.2
-	0950 .8	0950 .8	1020 .5	1020 .5	1105 .8
-	1710 2.9	1710 2.9	1805 3.0	1805 3.0	1800 4.3
-	2200 2.1	2200 2.1	2250 2.3	2250 2.3	2335 2.9
CATCH					
- Sockeye N	1			1	2
- Av. length	n/a			n/a	n/a
- Av. weight	n/a			n/a	n/a
- Age					
- Coho N					
- Chinook N					
- Chum N	3				
- Pink N	2				
- Steelhead N					
- Herring N	larvae	200 adult			
- Greenling N					
- Lingcod N			10		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 21	CP 22	CP 23	CP 24	CP 25
DATE	12/5/83	12/5/83	13/5/83	16/5/83	16/5/83
TIME (P.S.T.)	1100	1205	0415	1315	1410
LOCATION	Galiano Island	Galiano Island	Prevost Island	S. Pender Island	S. Pender Island
- Area	1 mi S Dionisio Point	2.5 mi S Dionisio Point	Captain Passage	Bedwell Harbor	Bedwell Harbor
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	15.2	16.2	9.8	10.4	10.4
- Sun	3	3	3	1	1
- Clouds - %	0	0	0	100	100
- type	-	-	-	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	1	0	0	0
- direction	30	30	-	-	-
- Waves - height	1	1	0	0	0
- direction	30	30	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 19	<.5 kn F 12	1 kn E 11	<.5 kn F 21	1 kn F 21
- Tides - FH	0415 4.2	0415 4.2	0345 3.0	0130 2.8	0130 2.8
-	1105 .8	1105 .8	1100 .3	0505 3.0	0505 3.0
-	1800 4.3	1800 4.3	1855 3.1	1310 .1	1310 .1
-	2335 2.9	2335 2.9	2340 2.5	2155 3.3	2155 3.3
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N	2 adult			3	
- Chinook N		4			
- Chum N					
- Pink N					
- Steelhead N					
- Herring N			2 adult		
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.		CP 26	CP 27	CP 28	CP 29	CP 30
DATE		15/5/83	17/5/83	17/5/83	17/5/83	17/5/83
TIME (P.S.T.)		1540	0535	0650	0825	0915
LOCATION		Saturna Island	Saturna Island	Saturna Island	Orcas Island	Orcas Island
- Area		Taylor Point	Croker Point	Narvaez Bay	Point Doughty	2.5 mi S Point Doughty
- Map No.		3450	3450	3450	3449	3449
WEATHER						
- Water Temp. °C		10.4	10.2	9.8	10.2	10.2
- Sun		1	1	1	1	1
- Clouds - %		100	100	100	100	100
- type		2	2	2	2	2
- Visibility		5	5	5	5	5
- Wind - force		1	1	1	1	1
- direction		11	14	12	22	22
- Waves - height		1	1	1	1	1
- direction		11	14	12	22	22
- Rain - type		0	0	0	0	1
- duration		-	-	-	-	50
- Observed tide		1 kn F 07	nil	nil	nil	1 kn E 21
- Tides -	FH	0130 2.8	0255 2.8	0255 2.8	0255 2.8	0255 2.8
-		0505 3.0	0555 2.9	0555 2.9	0555 2.9	0555 2.9
-		1310 .1	1405 .8	1405 .8	1405 .8	1405 .8
-		2155 3.3	2240 3.4	2240 3.4	2240 3.4	2240 3.4
CATCH						
- Sockeye N		428	64	1		
- Av. length		86.84±1.38	n/a	n/a		
- Av. weight		6.72±.38	n/a	n/a		
- Age						
- Coho N		3 adult				
- Chinook N		1				
- Chum N		1				
- Pink N						
- Steelhead N		1				
- Herring N			larvae			
- Greenling N						
- Lingcod N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 31	CP 32	CP 33	CP 34	CP 35
DATE	17/5/83	17/5/83	17/5/83	18/5/83	18/5/83
TIME (P.S.T.)	0947	1100	1245	0620	0715
LOCATION	President Channel	Waldron Island	Jones Island	Blakely Island	Blakely Island
- Area	2.5 mi SW Point Doughty	Point Doughty	S end Jones Island	Black Rock	Peavine Passage
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	10.2	10.1	10.2	10.1	10.2
- Sun	1	1	1	1	1
- Clouds - %	100	100	100	90	80
- type	2-3	2-3	2-3	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	2	2	0	0
- direction	21	20	20	-	-
- Waves - height	2	1	1	0	0
- direction	21	20	20	-	-
- Rain - type	1	1	1	0	0
- duration	100	100	100	-	-
- Observed tide	2 kn E 18	nil	1 kn E 27	nil	nil
- Tides -	FH 0255 2.8	0255 2.8	0255 2.8	0445 2.7	0445 2.7
-	0555 2.9	0555 2.9	0555 2.9	0645 2.7	0645 2.7
-	1405 .8	1405 .8	1405 .8	1455 .5	1455 .5
-	2240 3.4	2240 3.4	2240 3.4	2330 3.4	2330 3.4
CATCH					
- Sockeye N			1 adult		1
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N					1 (tag)
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 36	CP 37	CP 38	CP 39	CP 40
DATE	18/5/83	18/5/83	18/5/83	18/5/83	18/5/83
TIME (P.S.T.)	0800	0855	1010	1135	1315
LOCATION	Rosario Strait	Cypress Island	Cypress Island	Rosario Strait	Orcas Island
- Area	1.5 mi W Tide Point	Tide Point	Eagle Cliff	Doe Island	2.5 mi W Lawrence Point
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	10.6	10.7	11.2	10.8	10.9
- Sun	1	1	1	1	1
- Clouds - %	70	50	50	50	30
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	1	1	1	1
- direction	-	32	32	8	8
- Waves - height	0	1	1	1	1
- direction	-	32	32	8	8
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	1.5 kn E 16	3.5 kn E 19	<.5 kn E 19	1.5 kn E 09
- Tides - FH	0445 2.7	0445 2.7	0445 2.7	0445 2.7	0445 2.7
-	0645 2.7	0645 2.7	0645 2.7	0645 2.7	0645 2.7
-	1455 .5	1455 .5	1455 .5	1455 .5	1455 .5
-	2330 3.4	2330 3.4	2330 3.4.	2330 3.4	2330 3.4
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N				1 adult	
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 41	CP 42	CP 43	CP 44	CP 45
DATE	18/5/83	19/5/83	19/5/83	19/5/83	19/5/83
TIME (P.S.T.)	1400	0440	0720	0850	1010
LOCATION	Orcas Island	Orcas Island	Jumbo Island	Mayne Island	Galiano Island
- Area	.5 mi S Point Thompson	.5 mi S Point Thompson	Savage Point	Edith Point	Salamanca Point
- Map No.	3449	3449	3450	3450	3450
WEATHER					
- Water Temp. °C	10.8	9.8	12.8	12.3	13.0
- Sun	0	1	1	1	1
- Clouds - %	30	90	90	90	90
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	2	1
- direction	-	-	-	31	31
- Waves - height	0	0	0	2	1
- direction	-	-	-	31	31
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn E 09	nil	.5 kn F 09	nil	nil
- Tides -	FH 0445 2.7	0615 2.5	PA 0610 3.2	0610 3.2	0610 3.2
-	0645 2.7	0800 2.5	0930 3.4	0930 3.4	0930 3.4
-	1455 .5	1555 .8	1645 1.3	1645 1.3	1645 1.3
-	2330 3.4				
CATCH					
- Sockeye N	1				
- Av. length	n/a				
- Av. weight	n/a				
- Age					
- Coho N					
- Chinook N					
- Chum N	4				
- Pink N					
- Steelhead N					
- Herring N		6 adult		larvae	larvae
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 46	CP 47	CP 48	CP 49	CP 50
DATE	24/5/83	24/5/83	24/5/83	25/5/83	25/5/83
TIME (P.S.T.)	1245	1345	1435	0500	0620
LOCATION	Flat Top Island	Gabriola Reefs	Gabriola Reefs	Valdes Island	De Courcy Group
- Area	Flat Top Island	Thrasher Rock	Thrasher Rock	Dibuxante Point	Ruxton Passage
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	15.4	15.8	14.7	13.4	13.8
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	0
- direction	-	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 33	<.5 kn F 33	1 kn F 29	nil	nil
- Tides - PA	0305 4.5	0305 4.5	0305 4.5	0235 3.2	0235 3.2
-	1005 1.2	1005 1.2	1005 1.2	0955 .6	0955 .6
-	1655 4.1	1655 4.1	1655 4.1	1745 3.0	1745 3.0
-	2200 2.9	2200 2.9	2200 2.9	2205 2.5	2205 2.5
CATCH					
- Sockeye N	1	7	4	89	11
- Av. length	n/a	n/a	n/a	n/a	n/a
- Av. weight	n/a	n/a	n/a	n/a	n/a
- Age					
- Coho N		1 adult		1	
- Chinook N			1		
- Chum N		5		108	140
- Pink N					
- Steelhead N			5 (3 tags)		
- Herring N					180 kg adult
- Greenling N		larvae, juv.	juv.	juv.	juv.
- Lingcod N				juv.	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 51	CP 52	CP 53	CP 543	CP 55
DATE	25/5/83	25/5/83	25/5/83	25/5/83	25/5/83
TIME (P.S.T.)	0835	0948	1100	1210	1250
LOCATION	Stuart Channel	Stuart Channel	Stuart Channel	Stuart Channel	Ladysmith Harbor
- Area	Flewett Point	Yellow Point	Kulleet Bay	Nares Rock	Sharpe Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	15.4	13.4	13.5	14.4	14.4
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	0	1	1	1
- direction	-	-	6	36	4
- Waves - height	0	0	1	1	1
- direction	-	-	6	36	4
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	<.5 kn F 15	nil
- Tides - FH	0235 3.2	0235 3.2	0235 3.2	0235 3.2	0235 3.2
-	0955 .6	0955 .6	0955 .6	0955 .6	0955 .6
-	1745 3.0	1745 3.0	1745 3.0	1745 3.0	1745 3.0
-	2205 2.5	2205 2.5	2205 2.5	2205 2.5	2205 2.5
CATCH					
- Sockeye N	2	3	3		
- Av. length	n/a	n/a	n/a		
- Av. weight	n/a	n/a	n/a		
- Age					
- Coho N		1			
- Chinook N	1 jack	2 1 jack	1 jack	1	
- Chum N	9	7	19	1	
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 56	CP 57	CP 58	CP 59	CP 60
DATE	26/5/83	26/5/83	26/5/83	26/5/83	26/5/83
TIME (P.S.T.)	0540	0652	0730	0855	1022
LOCATION	Thetis Island	Trincomali Channel	Trincomali Channel	Valdes Island	Flat Top Island
- Area	Pilkey Point	Reid Island	Reid Island	Blackberry Point	Flat Top Island
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	14.4	12.7	12.8	12.6	n/a
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	1	0	0	1	2
- direction	29	-	-	32	33
- Waves - height	1	0	0	1	2
- direction	29	-	-	32	33
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 09	<1 kn E 12	<1 kn E 12	<.5 kn E 12	<.5 kn F 16
- Tides -	FH 0300 3.1	0300 3.1	0300 3.1	0300 3.1	PA 0405 4.3
-	1025 .5	1025 .5	1025 .5	1025 .5	1105 .7
-	1820 3.2	1820 3.2	1820 3.2	1820 3.2	1840 4.5
-	2305 2.6	2305 2.6	2305 2.6	2305 2.6	2345 3.2
CATCH					
- Sockeye N	47	5	1	54	
- Av. length	n/a	n/a	n/a	104.51±1.61	
- Av. weight	n/a	n/a	n/a	11.74±.65	
- Age					
- Coho N	1	5	1	4	
- Chinook N		2	6 jack		
- Chum N	39	6	15	14	4
- Pink N	10				
- Steelhead N					
- Herring N	50 adult				
- Greenling N		juv.	juv.		juv.
- Lingcod N		juv.	juv.		juv.

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 61	CP 62	CP 63	CP 64	CP 65
DATE	1/6/83	1/6/83	1/6/83	1/6/83	2/6/83
TIME (P.S.T.)	1210	1250	1420	1520	0420
LOCATION	Ballenas Channel	Ballenas Channel	Parksville	Parksville	Deep Bay
- Area	Ballenas Island	Ballenas Island	Englishman River	French Creek	Deep Bay
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	16.0	16.0	16.0	16.0	15.0
- Sun	1	1	1	1	0
- Clouds - %	100	100	100	100	100
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	2	0	0	1
- direction	12	12	-	-	27
- Waves - height	2	2	0	0	1
- direction	12	12	-	-	27
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<1 kn E 26	<.5 kn E 26	nil	nil	nil
- Tides - PA	0420 3.3	0420 3.3	0420 3.3	0420 3.3	0545 3.1
-	0730 3.4	0730 3.4	0730 3.4	0730 3.4	0835 3.2
-	1450 1.3	1450 1.3	1450 1.3	1450 1.3	1540 1.6
-	2245 4.5	2245 4.5	2245 4.5	2245 4.5	2340 4.4
CATCH					
- Sockeye N	2			3	
- Av. length	n/a			n/a	
- Av. weight	n/a			n/a	
- Age					
- Coho N	6 adult	7 adult		360	90
- Chinook N			21	200	150
- Chum N		1	59	1000	901
- Pink N					
- Steelhead N	1 (tag)				
- Herring N	larvae	larvae		larvae	larvae
- Greenling N	juvenile				
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 66	CP 67	CP 68	CP 69	CP 70
DATE	2/6/83	2/6/83	2/6/83	2/6/83	2/6/83
TIME (P.S.T.)	0600	0805	0925	1140	1310
LOCATION	Denman Island	Denman Island	Cape Lazo	Hornby Island	Hornby Island
- Area	Metcalf Bay	Longback Point	1.5 mi S Cape Lazo	Shingle Spit	St. Johns Point
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	15.0	15.0	15.0	14.5	15.0
- Sun	1	1	1	1	1
- Clouds - %	100	100	100	100	100
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	1	0	0
- direction	-	-	0	-	-
- Waves - height	0	0	1	0	0
- direction	-	-	01	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	<.5 kn F 01	nil	nil
- Tides - PA	0545 3.1	0545 3.1	0545 3.1	0545 3.1	0545 3.1
-	0835 3.2	0835 3.2	0835 3.2	0835 3.2	0835 3.2
-	1540 1.6	1540 1.6	1540 1.6	1540 1.6	1540 1.6
-	2340 4.4	2340 4.4	2340 4.4	2340 4.4	2340 4.4
CATCH					
- Sockeye N					4
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N	75	87	46	16	18
- Chinook N	40 1 jack	5			2
- Chum N	361	3	5	91	1057
- Pink N					
Steelhead N					
- Herring N	larvae	larvae	larvae	larvae	larvae
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Dennis Crabtree

SET NO.	CP 71	CP 72	CP 73	CP 74	CP 75
DATE	8/6/83	8/6/83	9/6/83	9/6/83	9/6/83
TIME (P.S.T.)	1510	1705	0500	0705	0940
LOCATION	Kuper Island	Crofton	Maple Bay	Cowichan Bay	Moresby Passage
- Area	Tent Island	Osborn Bay	Maple Bay	Skinner Point	.5 mi W Seymour Point
- Map No.	3450	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	17.0	17.2	14.5	13.0	13.0
- Sun	0	0	0	0	2
- Clouds - %	50	50	100	100	100
- type	2	2	3	3	1
- Visibility	5	5	5	5	5
- Wind - force	5	5	1	3	1
- direction	20	16	36	14	13
- Waves - height	2	3	1	3	1
- direction	20	16	36	14	13
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	<.5 kn E	1 kn E	1 kn F
- Tides - FH	0120 3.1	0120 3.1	0150 3.1	0150 3.1	0150 3.1
-	0855 .7	0855 .7	0925 .4	0925 .4	0925 .4
-	1630 2.8	1630 2.8	1730 3.0	1730 3.0	1730 3.0
-	2035 2.4	2035 2.4	2140 2.6	2140 2.3	2140 2.4
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N	5	37	5	5	
- Chinook N		7	4	55	
- Chum N	7	320	886	266	
- Pink N					
- Steelhead N					
- Herring N	70 kg				3
- Greenling N					
- Lingcod N	6		1	1	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 76	CP 77	CP 78	CP 79	CP 80
DATE	13/6/83	13/6/83	13/6/83	14/6/83	14/6/83
TIME (P.S.T.)	1215	1400	1735	0555	0640
LOCATION	Sidney Island	Sidney Island	San Juan Island	Blakely Island	Blakely Island
- Area	Sidney Spit	Hamley Point	Salmon Banks	Peavine Passage	Black Rock
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	12.5	12.5	11.0	11.0	11.0
- Sun	3	3	3	2	2
- Clouds - %	50	50	30	100	100
- type	1	1	1	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	0
- direction	-	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn F 19	nil	<.5 kn F 04	nil	1.5 kn E 13
- Tides - FH	0025 2.9	0025 2.9	0025 2.9	0135 2.9	0135 2.9
-	0350 3.1	0350 3.1	0350 3.1	0450 3.0	0450 3.0
-	1210 .2	1210 .2	1210 .2	1250 .0	1250 .0
-	2045 3.5	2045 3.5	2045 3.5	2125 3.5	2125 3.5
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N	2			1	
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N				1	
- Herring N	1800 kg	larvae	larvae		
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: Scott E. Macey

SET NO.	CP 81	CP 82	CP 83	CP 84	CP 85
DATE	14/6/83	14/6/83	14/6/83	14/6/83	15/6/83
TIME (P.S.T.)	0730	0835	1000	1210	0800
LOCATION	Cypress Island	Cypress Island	Guemes Island	Rosario Strait	Haro Strait
- Area	Reef Point	Secret Harbor	Clark Point	Doe Island	Johnstone Reef
- Map No.	3449	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	11.0	11.0	11.5	11.0	11.0
- Sun	2	2	2	2	3
- Clouds - %	80	70	80	80	10
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	4
- direction	-	-	-	-	21
- Waves - height	0	0	0	0	3
- direction	-	-	-	-	21
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1.5 kn E 16	3 kn E 19	1.5 kn E 16 back eddy	.5 kn E 14	1 kn E 12
- Tides - FH	0135 2.9	0135 2.9	0135 2.9	0135 2.9	0245 2.6
-	0450 3.0	0450 3.0	0450 3.0	0450 3.0	1215 .2
-	1250 .0	1250 .0	1250 .0	1250 .0	2155 2.6
-	2125 3.5	2125 3.5	2125 3.5	2125 3.5	
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N	8	10	45		
- Chinook N		2	445		
- Chum N		1	110		
- Pink N			29		
- Steelhead N					
- Herring N			900 kg adult		
- Greenling N					
- Crab	larvae	larvae			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 1	TP 2	TP 3	TP 4	TP 5
DATE	2/5/84	4/5/84	4/5/84	4/5/84	4/5/84
TIME (P.S.T.)	0930	0715	0815	0915	1015
LOCATION	Stuart Channel	Valdes Island	Valdes Island	Trincomali Channel	Trincomali Channel
- Area	Round Island	Blackberry Point	Cardale Point	Hall Island	Reid Island
- Map No.	3310	3310	3310	3310	3310
WEATHER					
- Water Temp. °C	8.5	7.5	8.0	8.0	8.0
- Sun	2	1	2	2	2
- Clouds - %	75	100	100	100	100
- type	2	3	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	0	0	1	0
- direction	10	-	-	12	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 09	<.5 kn E 12	nil	.5 kn E 09	nil
- Tides - PA	0010 2.9	0140 3.2	0140 3.2	0140 3.2	0140 3.2
-	0510 4.1	0610 4.0	0610 4.0	0610 4.0	0610 4.0
-	1215 .8	1325 .7	1325 .7	1325 .7	1325 .7
-	1920 4.3	2105 4.4	2105 4.4	2105 4.4	2105 4.4
CATCH					
- Sockeye N				4	
- Av. length				n/a	
- Av. weight				n/a	
- Age					
- Coho N					
- Chinook N					12
- Chum N					
- Pink N					
- Steelhead N					
- Herring N					1
- Greenling N		3			
- Stickleback		6	6	2	
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 6	TP 7	TP 8	TP 9	TP 10
DATE	10/5/84	14/5/84	14/5/84	14/5/84	14/5/84
TIME (P.S.T.)	1300	1330	1430	1540	1730
LOCATION	Cowichan Bay	S. Pender Island	S. Pender Island	Saturna Island	Mayne Island
- Area	Separation Point	Bedwell Harbor	Camp Bay	Narvaez Bay	Campbell Bay
- Map No.	3441	3441	3441	3441	3442
WEATHER					
- Water Temp.	9.0	8.0	8.0	8.0	n/a
- Sun	3	3	2	2	3
- Clouds - %	75	40	40	50	50
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	1	1	1	1
- direction	14	14	20	27	21
- Waves - height	1	1	1	1	1
- direction	14	14	20	27	21
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	<.5 kn E 31
- Tides -	FH 0120 3.3	0255 3.2	0255 3.2	0255 3.2	0255 3.2
-	0755 2.0	1010 .5	1010 .5	1010 .5	1010 .5
-	1215 2.3	1735 3.1	1735 3.1	1735 3.1	1735 3.1
-	1825 1.2	2215 2.4	2215 2.4	2215 2.4	2215 2.4
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N					1
- Steelhead N					
- Herring N					
- Sculpins (Soft)	2	2	5	12	
- Lingcod N	4 larvae				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 11	TP 12	TP 13	TP 14	TP 15
DATE	15/5/84	15/5/84	15/5/84	15/5/84	15/5/84
TIME (P.S.T.)	0450	0830	0930	1105	1345
LOCATION	Mayne Island	Waldron Island	Stuart Island	S. Pender Island	Sucia Island
- Area	Campbell Bay	Sandy Point	E Satellite Island	Bedwell Harbor	Echo Bay
- Map No.	3442	3449	3449	3449	3449
WEATHER					
- Water Temp. °C	8.0	8.0	7.5	9.0	8.0
- Sun	1	2	3	3	3
- Clouds - %	90	95	60	30	15
- type	3	3	2	2	2
- Visibility	4	5	5	5	5
- Wind - force	1	1	0	1	1
- direction	28	26	-	15	31
- Waves - height	1	1	0	1	1
- direction	28	26	-	15	31
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 28	<.5 kn E 04	.5 kn E 09	nil	nil
- Tides -	PA 0420 4.4	FH 0320 3.2	0320 3.2	0320 3.2	0320 3.2
-	1130 .5	1040 .3	1040 .3	1040 .3	1040 .3
-	1840 4.6	1830 3.2	1830 3.2	1830 3.2	1830 3.2
-		2315 2.6	2315 2.6	2315 2.6	2315 2.6
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N	6				
- Steelhead N					
- Herring N			15 adult		
- Greenling N			2		
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 16	TP 17	TP 18	TP 19	TP 20
DATE	15/5/84	15/5/84	16/5/84	16/5/84	16/5/84
TIME (P.S.T.)	1815	1845	0620	0745	1039
LOCATION	Sucia Island	Sucia Island	St. Georgia	St. Georgia	St. Georgia
- Area	Echo Bay	Echo Bay	5 mi SE Cherry Point	3 mi SE Birch Point	4 mi NE Earth Point
- Map No.	3449	3449	3450	3450	3450
WEATHER					
- Water Temp. °C	7.5	7.5	7.5	7.5	10.0
- Sun	3	3	0	1	3
- Clouds - %	10	10	95	95	50
- type	2	2	3	3	2
- Visibility	5	5	3	5	5
- Wind - force	0	0	3	3	1
- direction	-	-	22	25	13
- Waves - height	0	0	2	2	1
- direction	-	-	22	25	13
- Rain - type	0	0	1	0	0
- duration	-	-	50	50	-
- Observed tide	nil	nil	.5 kn E 34	nil	1.5 kn E 11
- Tides -	FH 0320 3.2	0320 3.2	PA 0000 3.1	0000 3.1	0000 3.1
-	1040 .5	1040 .5	0455 4.3	0455 4.3	0455 4.3
-	1830 3.2	1830 3.2	1215 .4	1215 .4	1215 .4
-	2315 2.6	2315 2.6	1940 4.7	1940 4.7	1940 4.7
CATCH					
- Sockeye N					57
- Av. length					82.18±7.24
- Av. weight					5.3g±1.60
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N			1		
- Steelhead N					
- Herring N		larvae			
- Sculpins (soft)	3	6		10	
- Wolfeel		1			
- Lamprey					1

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 21	TP 22	TP 23	TP 24	TP 25
DATE	16/5/84	16/5/84	17/5/84	17/5/84	17/5/84
TIME (P.S.T.)	1245	1400	0500	0630	0800
LOCATION	Mayne Island	Mayne Island	S. Pender Island	Waldron Island	San Juan Island
- Area	Campbell Bay	Campbell Bay	Bedwell Harbor	Cowlitz Bay	Rocky Bay
- Map No.	3442	3442	3441	3441	3441
WEATHER					
- Water Temp. °C	10.0	10.0	8.5	7.5	8.0
- Sun	2	2	0	0	2
- Clouds - %	60	50	100	100	100
- type	2	2	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	3	4	0	1	1
- direction	15	15	-	21	16
- Waves - height	1	2	0	1	1
- direction	15	15	-	21	16
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	<.5 kn E 29	nil	nil
- Tides -	PA 0000 3.1	0000 3.1	FH 0025 2.7	0025 2.7	0025 2.7
-	0455 4.3	0455 4.3	0410 3.0	0410 3.0	0410 3.0
-	1215 .4	1215 .4	1200 .2	1200 .2	1200 .2
-	1940 4.7	1940 4.7	2015 3.4	2015 3.4	2015 3.4
CATCH					
- Sockeye N		1	30		
- Av. length		n/a	n/a		
- Av. weight		n/a	n/a		
- Age					
- Coho N					
- Chinook N					
- Chum N		4000	6		
- Pink N		2600			
- Steelhead N					
- Herring N	230 adult	2 juv.	10 adult 1 juv.		
- Greenling N					
- Sandlance N			1		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.		TP 26	TP 27	TP 28	TP 29	TP 30
DATE		17/5/84	22/5/84	22/5/84	22/5/84	22/5/84
TIME (P.S.T.)		0930	1940	2015	0545	0845
LOCATION		Shaw Island	S. Pender Island	S. Pender Island	San Juan Island	Shaw Island
- Area		Parks Bay	Bedwell Harbor	Bedwell Harbor	Rocky Bay	Park Bay
- Map No.		3449	3441	3441	18434 (U.S.)	18434 (U.S.)
WEATHER						
- Water Temp. °C		8.0	8.0	8.0	7.5	8.0
- Sun		1	2	0	3	2
- Clouds - %		95	95	60	60	75
- type		3	3	3	2	2
- Visibility		5	4	3	5	5
- Wind - force		0	1	0	3	1
- direction		-	08	-	27	17
- Waves - height		0	1	0	1	1
- direction		-	08	-	27	17
- Rain - type		0	1	0	0	0
- duration		-	-	1.0	-	-
- Observed tide		nil	<.5 kn F 30	<.5 kn F 30	nil	nil
- Tides -	FH	0025 2.7	0615 2.3	0615 2.3		
-		0410 3.0	0930 2.2	0930 2.2	0615 2.3	0615 2.3
-		1200 .2	1550 1.2	1550 1.2	0930 2.2	0930 2.2
-		2015 3.4			1550 1.2	1550 1.2
CATCH						
- Sockeye N			37	678		
- Av. length			n/a	89.44±18.30		
- Av. weight			n/a	8.98± 6.07		
- Age						
- Coho N						
- Chinook N						
- Chum N			1	3		
- Pink N						
- Steelhead N						
- Herring N						
- Greenling N						
- Sculpins (soft)			25			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.		TP 31	TP 32	TP 33	TP 34	TP 35
DATE		23/5/84	23/5/84	23/5/84	23/5/84	23/5/84
TIME (P.S.T.)		1000	1100	1200	1300	1400
LOCATION		San Juan Channel	San Juan Channel	San Juan Channel	Lopez Island	Lopez Island
- Area		Turn Point	Griffin Bay	Harbor Point	Iceberg Point	Iceberg Point
- Map No.		18434 (U.S.)	18434 (U.S.)	18434 (U.S.)	18434 (U.S.)	18434 (U.S.)
WEATHER						
- Water Temp. °C		8.0	8.0	8.0	8.0	8.5
- Sun		3	3	1	3	3
- Clouds - %		30	30	40	20	20
- type		2	2	3	2	2
- Visibility		5	5	5	5	5
- Wind - force		4	2	3	1	4
- direction		22	18	22	22	24
- Waves - height		2	1	2	4	4
- direction		22	18	22	22	24
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	nil	.5 kn E 34
- Tides -	FH	0025 3.3	0025 3.3	0025 3.3	0025 3.3	0025 3.3
-		0800 2.2	0800 2.0	0800 2.0	0800 2.0	0800 2.0
-		1040 2.1	1040 2.1	1040 2.1	1040 2.1	1040 2.1
-		1650 1.4	1650 4.1	1650 1.4	1650 1.4	1650 1.4
CATCH						
- Sockeye N						
- Av. length						
- Av. weight						
- Age						
- Coho N						
- Chinook N						
- Chum N						
- Pink N						
- Steelhead N			1			
- Herring N						
- Greenling N						
- Sandland			larvae	larvae		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 36	TP 37	TP 38	TP 39	TP 40
DATE	24/5/84	24/5/84	24/5/84	24/5/84	24/5/84
TIME (P.S.T.)	0430	0600	0645	0845	0935
LOCATION	San Juan Island	San Juan Island	San Juan Island	Stuart Island	Henry Island
- Area	Friday Harbor	Rocky Bay	Rocky Bay	Reid Harbor	Open Bay
- Map No.	18434 (U.S.)	18434 (U.S.)	18434 (U.S.)	3441	3441
WEATHER					
- Water Temp. °C	7.5	7.5	7.5	8.0	8.0
- Sun	1	1	1	1	1
- Clouds - %	30	30	30	30	40
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	2	2	0	3
- direction	23	18	18	-	19
- Waves - height	1	1	1	0	2
- direction	23	18	18	-	19
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - FH	0045 3.2	0045 3.2	0045 3.2	0045 3.2	0045 3.2
-	0805 1.8	0805 1.8	0805 1.8	0805 1.8	0805 1.8
-	1300 2.1	1300 2.1	1300 2.1	1300 2.1	1300 2.1
-	1750 1.7	1750 1.7	1750 1.7	1750 1.7	1750 1.7
CATCH					
- Sockeye N			1		
- Av. length			n/a		
- Av. weight			n/a		
- Age					
- Coho N					
- Chinook N					
- Chum N		39			
- Pink N		86			
- Steelhead N					
- Herring N	1 juv.	1 juv.			
- Sandlance		4			
- Sculpins (soft)		4		2	4

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 41	TP 42	TP 43	TP 44	TP 45
DATE	24/5/84	24/5/84	28/5/84	28/5/84	28/5/84
TIME (P.S.T.)	1030	1115	1340	1415	1645
LOCATION	Sidney Island	Miners Channel	James Island	James Island	Gooch Island
- Area	Wymono Point	Mandarte Island	James Island Light	Cordova Spit	Rum Island
- Map No.	3441	3441	3449	3449	3449
WEATHER					
- Water Temp. °C	8.0	8.0	9.0	9.5	9.0
- Sun	1	1	3	3	3
- Clouds - %	40	40	10	10	50
- type	2	2	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	4	5	0	1	0
- direction	17	17	-	15	-
- Waves - height	3	4	0	0	0
- direction	17	17	-	15	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	<.5 kn F 33	.5 kn F 33	nil
- Tides - FH	0045 3.2	0045 3.2	0205 3.0	0205 3.0	0205 3.0
-	0805 1.8	0805 1.8	0925 .8	0925 .8	0925 .8
-	1300 2.1	1300 2.1	1730 2.9	1730 2.9	1730 2.9
-	1750 1.7	1750 1.7	2140 2.5	2140 2.5	2140 2.5
CATCH					
- Sockeye N					1
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N				1	
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N				larvae	
- Greenling N				1	
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.		TP 46	TP 47	TP 48	TP 49	TP 50
DATE		28/5/84	29/5/84	29/5/84	29/5/84	29/5/84
TIME (P.S.T.)		1730	0530	0820	0945	1200
LOCATION		Sidney Island	James Island	Victoria	Pedder Bay	William Head
- Area		Sidney Spit	Cowichan Head	Albert Head	Fossil Point	William Head Light
- Map No.		3449	3449	3440	3440	3440
WEATHER						
- Water Temp. °C		9.0	9.0	8.0	9.0	9.0
- Sun		3	3	3	3	3
- Clouds - %		30	10	30	20	50
- type		1	1	1	1	1
- Visibility		5	4	5	5	5
- Wind - force		1	0	0	0	2
- direction		11	-	-	-	18
- Waves - height		0	0	0	0	1
- direction		11	-	-	-	18
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		<.5 kn E 17	nil	nil	nil	<.5 kn F 36
- Tides -	FH	0205 3.0	0220 3.0	VIC 0035 2.6	0035 2.6	0035 2.6
-		0925 .8	0950 .8	0815 .5	0815 .5	0815 .5
-		1730 2.9	1730 2.9	1750 2.2	1750 2.2	1750 2.2
-		2140 2.5	2215 2.5	1930 2.2	1930 2.2	1930 2.2
CATCH						
- Sockeye N						
- Av. length						
- Av. weight						
- Age						
- Coho N						
- Chinook N						
- Chum N						
- Pink N						
- Steelhead N						
- Herring N						
- Greenling N				1		
- Lingcod N				2 larvae		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 51	TP 52	TP 53	TP 54	TP 55
DATE	29/5/84	29/5/84	30/5/84	30/5/84	30/5/84
TIME (P.S.T.)	1315	1540	0630	0830	1130
LOCATION	Esquimalt	Henry Island	Saltspring Island	S. Pender Island	San Juan Island
- Area	Brothers Island	Open Bay	Isabella Point	Bedwell Harbor	Rocky Bay
- Map No.	3440	3441	3441	3441	3441
WEATHER					
- Water Temp. °C	9.5	8.5	9.0	10.0	9.5
- Sun	3	3	3	3	3
- Clouds - %	60	80	30	30	20
- type	1	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	5	43	5	1	4
- direction	22	18	24	29	23
- Waves - height	3	2	2	1	1
- direction	22	18	24	29	23
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	
- Observed tide	nil	nil	<.5 kn E 16	nil	<.5 kn E 22
- Tides - VIC	0035 2.6	0035 2.6	0245 3.0	0245 3.0	0245 3.0
-	0815 .5	0815 .5	1020 .3	1020 .3	1020 .3
-	1750 2.2	1750 2.2	1845 3.2	1845 3.2	1845 3.2
-	1930 2.2	1930 2.2	2310 2.7	2310 2.7	2310 2.7
CATCH					
- Sockeye N				17	3
- Av. length				n/a	n/a
- Av. weight				n/a	n/a
- Age					
- Coho N			9 juv.	5	
- Chinook N			1 juv.	1	
- Chum N			84	40	2
- Pink N				271	1
- Steelhead N					
- Herring N	1 adult		1 adult	10 juv.	
- Greenling N	2				
- Lingcod N					
- Smelt N				8	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 56	TP 57	TP 58	TP 59	TP 60
DATE	30/5/84	30/5/84	30/5/84	31/5/84	31/5/84
TIME (P.S.T.)	1200	1230	1900	0500	0545
LOCATION	San Juan Island	San Juan Island	S. Pender Island	Moresby Island	Gooch Island
- Area	Rocky Bay	Rocky Bay	Bedwell Harbor	Point Fairfax	Tom Point
- Map No.	3441	3441	3441	3441	3441
WEATHER					
- Water Temp. °C	9.5	9.0	9.0	8.0	8.0
- Sun	3	3	3	3	3
- Clouds - %	20	20	20	10	10
- type	1	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	4	5	3	1	1
- direction	23	23	31	20	20
- Waves - height	1	2	1	1	1
- direction	23	23	31	20	20
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn E 13	<.5 kn E 14	.5 kn E 20	.5 kn E 14
- Tides - FH	0245 3.0	0245 3.0	0245 3.0	0300 3.0	0300 3.0
-	1020 .3	1020 .3	1020 .3	1100 .1	1100 .1
-	1845 3.2	1845 3.2	1845 3.2	1935 3.3	1935 3.3
-	2310 2.7	2310 2.7	2310 2.7		
CATCH					
- Sockeye N	1		536	23	6
- Av. length	n/a		91.74±13.27	n/a	n/a
- Av. weight	n/a		8.56± 4.15	n/a	n/a
- Age					
- Coho N			4 juv.		
- Chinook N			2 adult 1 juv.		
- Chum N			3		
- Pink N			472	1	
- Steelhead N					
- Herring N	82 adult	47 adult	1400 juv. and adult	14 adult	
- Greenling N					
- Sandlance N			1		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 61	TP 62	TP 63	TP 64	TP 65
DATE	31/5/84	31/5/84	4/6/84	4/6/84	4/6/84
TIME (P.S.T.)	0945	1030	1330	1500	1700
LOCATION	Saltspring Island	Portland Island	Portland Island	N. Pender Island	Gooch Island
- Area	Isabella Point	Kanaka Bluff	Chads Island	Mouat Point	Cooper Reef
- Map No.	3441	3441	3441	3442	3441
WEATHER					
- Water Temp. °C	9.0	9.5	11.0	10.8	10.2
- Sun	3	3	3	3	1
- Clouds - %	20	30	60	30	90
- type	2	2	2	2	3
- Visibility	5	5	5	5	5
- Wind - force	2	1	1	0	0
- direction	02	11	04	-	-
- Waves - height	1	1	0	0	0
- direction	02	11	04	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	<.5 kn F 36	nil
- Tides -	FH 0300 3.0	0300 3.0	0335 2.7	0335 2.7	0335 2.7
-	1100 .1	1100 .1	0515 2.8	0515 2.8	0515 2.8
-	1935 3.3	1935 3.3	1355 .4	1355 .4	1355 .4
-			2230 3.4	2230 3.4	2230 3.4
CATCH					
- Sockeye N		3	34	1056	
- Av. length		n/a	n/a	n/a	
- Av. weight		n/a	n/a	n/a	
- Age					
- Coho N	2 juv.		2		
- Chinook N			1		
- Chum N	7	100	6		
- Pink N		300	165	1768	2
- Steelhead N					
- Herring N	150		5 adult		
- Greenling N		1 larvae			
- Sandlance N		3			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 66	TP 67	TP 68	TP 69	TP 70
DATE	4/6/84	5/6/84	5/6/84	5/6/84	5/6/84
TIME (P.S.T.)	2030	0610	0745	0930	1230
LOCATION	S. Pender Island	Stuart Island	San Juan Island	Miners Channel	Saltspring Island
- Area	Bedwell Harbor	E Satellite Island	Rocky Bay	Mandarte Island	Fulford Harbor
- Map No.	3441	3441	3441	3441	3441
WEATHER					
- Water Temp. °C	10.2	10.0	10.2	10.8	11.1
- Sun	0	3	1	2	1
- Clouds - %	80	90	95	100	100
- type	3	3	3	3	3
- Visibility	4	5	4	5	5
- Wind - force	0	2	1	3	3
- direction	-	18	14	14	18
- Waves - height	0	0	1	2	2
- direction	-	18	14	14	18
- Rain - type	0	0	1	1	1
- duration	-	-	40	40	50
- Observed tide	flood	nil	nil	<.5 kn E 14	nil
- Tides -	FH 0335 2.7	0505 2.6	0505 2.6	0505 2.6	0505 2.6
-	0515 2.8	0645 2.6	0645 2.6	0645 2.6	0645 2.6
-	1355 .4	1455 .6	1455 .6	1455 .6	1455 .6
-	2230 3.4	2300 3.4	2300 3.4	2300 3.4	2300 3.4
CATCH					
- Sockeye N	856	9			96
- Av. length	83.58±8.55	n/a			n/a
- Av. weight	5.72±1.70	n/a			n/a
- Age					
- Coho N	4			1	129 juv.
- Chinook N					
- Chum N					105
- Pink N	134	19	1		1123
- Steelhead N					
- Herring N	310 juv. and adults				21
- Greenling N					4
- Sandlance N	16				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 71	TP 72	TP 73	TP 74	TP 75
DATE	5/6/84	6/6/84	6/6/84	6/6/84	6/6/84
TIME (P.S.T.)	1600	0600	0715	0850	1050
LOCATION	Saltspring Island	Sidney	Cordova Channel	Cordova Bay	Victoria
- Area	Yeo Point	Ferry Dock	Cordova Spit	Gordon Head	Macaulay Point
- Map No.	3442	3441	3441	3440	3440
WEATHER					
- Water Temp. °C	11.2	10.8	10.5	10.5	10.5
- Sun	1	1	2	2	1
- Clouds - %	100	100	90	90	100
- type	3	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	1	0	0	0	0
- direction	17	-	-	-	-
- Waves - height	1	0	0	0	0
- direction	17	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides -	FH 0505 2.6	0610 2.3	0610 2.3	0610 2.3	VIC 0245 2.2
-	0645 2.6	0830 2.3	0830 2.3	0830 2.3	0645 2.1
-	1455 .6	1545 1.0	1545 1.0	1545 1.0	1420 .7
-	2300 3.4	2340 3.4	2340 3.4	2340 3.4	2245 2.5
CATCH					
- Sockeye N	133	33	4		
- Av. length	n/a	n/a	n/a		
- Av. weight	n/a	n/a	n/a		
- Age					
- Coho N	4				
- Chinook N					
- Chum N	29	2	12		
- Pink N	2488	56	69		
- Steelhead N					
- Herring N	74	1			
- Greenling N		1			
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 76	TP 77	TP 78	TP 79	TP 80
DATE	6/6/84	6/6/84	6/6/84	11/6/84	11/6/84
TIME (P.S.T.)	1145	1230	1400	1130	1245
LOCATION	Victoria	Victoria	Pedder Bay	Northumberland Channel	Snake Island
- Area	Albert Head	William Head	Fossil Point	Gabriola Cliffs	Snake Island
- Map No.	3440	3440	3440	3577	3577
WEATHER					
- Water Temp. °C	10.2	10.2	10.5	15.0	15.8
- Sun	2	3	3	3	3
- Clouds - %	60	50	60	10	10
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	0	2	1	1
- direction	17	-	21	34	60
- Waves - height	1	0	1	1	1
- direction	17	-	21	34	60
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn E 20	nil	<.5 kn E 35	nil
- Tides - VIC	0245 2.2	0245 2.2	FH 0245 2.2	PA 0230 4.5	0230 4.5
-	0645 2.1	0645 2.1	0645 2.1	0955 .7	0955 .7
-	1420 .7	1420 .7	1420 .7	1705 4.3	1705 4.3
-	2245 2.5	2245 2.5	2245 2.5	2200 3.3	2200 3.3
CATCH					
- Sockeye N	1				
- Av. length	n/a				
- Av. weight	n/a				
- Age					
- Coho N					
- Chinook N					
- Chum N				395	
- Pink N				3557	
- Steelhead N					
- Herring N			1000 adult		2
- Greenling N				1	
- Sandlance N	larvae	larvae			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 81	TP 82	TP 83	TP 84	TP 85
DATE	11/6/84	11/6/84	11/6/84	11/6/84	11/6/84
TIME (P.S.T.)	1330	1430	1540	1730	1850
LOCATION	Nanaimo	St. Georgia	St. Georgia	Lasqueti Island	Lasqueti Island
- Lat.		49°19'45"	49°22'10"		
- Long.		123°58'00"	124°00'35"		
- Area	Five Fingers Island	6 mi NE Five Fingers Island	8 mi E Sangster Island	Squitty Bay	Jenkins Island
- Map No.	3577	3577	3590	3590	3590
WEATHER					
- Water Temp. °C	16.2	16.1	17.0	16.8	16.0
- Sun	3	3	3	3	3
- Clouds - %	10	20	20	20	20
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	2	2	1	0
- direction	60	12	12	12	-
- Waves - height	1	1	1	1	0
- direction	60	12	12	12	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides -	PA 0230 4.5	0230 4.5	0230 4.5	0230 4.5	0230 4.5
-	0955 .7	0955 .7	0955 .7	0955 .7	0955 .7
-	1705 4.3	1705 4.3	1705 4.3	1705 4.3	1705 4.3
-	2200 3.3	2200 3.3	2200 3.3	2200 3.3.	2200 3.3
CATCH					
- Sockeye N		1	3	168	347
- Av. length		n/a	n/a	85.86±5.68	n/a
- Av. weight		n/a	n/a	5.92±1.27	n/a
- Age					
- Coho N	1	1		1 adult	6 juv.(4 tags)
- Chinook N	1	1			
- Chum N					
- Pink N				6	696
- Steelhead N	1				
- Herring N					
- Greenling N				2	
- Lamprey			1		
- Dogfish N	1	6	1		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 86	TP 87	TP 88	TP 89	TP 90
DATE	12/6/84	12/6/84	12/6/84	12/6/84	12/6/84
TIME (P.S.T.)	0645	0730	1015	1130	1245
LOCATION	Lasqueti Island	Lasqueti Island	Lasqueti Island	Texada Island	Sabine Channel
- Area	False Bay	Finnerty Island	Shear Island	Partington Point	Jervis Island
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	15.0	15.0	16.2	16.0	16.0
- Sun	3	3	3	3	3
- Clouds - %	10	0	10	5	5
- type	2	-	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	2	4	2	4	4
- direction	29	30	23	30	30
- Waves - height	1	2	1	2	4
- direction	29	30	32	30	30
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	<.5 kn F 32	<.5 kn F 30	<.5 kn F 30
- Tides -	PA 0310 4.4	0310 4.4	0310 4.4	0310 4.4	0310 4.4
-	1025 .5	1025 .5	1025 .5	1025 .5	1025 .5
-	1805 4.5	1805 4.5	1805 4.5	1805 4.5	1805 4.5
-	2300 3.4	2300 3.4	2300 3.4	2300 3.4	2300 3.4
CATCH					
- Sockeye N	2	75	34	668	238
- Av. length	n/a	n/a	n/a	n/a	n/a
- Av. weight	n/a	n/a	n/a	n/a	n/a
- Age					
- Coho N	1 adult 1 juv.	2	1	8 (1 tag)	
- Chinook N				2	
- Chum N	1	15			60
- Pink N	42	442	2	668	715 1 adult
- Steelhead N					
- Herring N	1				
- Greenling N					
- Dogfish N		9		55	50

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 91	TP 92	TP 93	TP 94	TP 95
DATE	12/6/84	12/6/84	13/6/84	13/6/84	13/6/84
TIME (P.S.T.)	1420	1630	0825	1020	1100
LOCATION	Texada Island	Texada Island	Malaspina Peninsula	Malaspina Peninsula	Cortes Island
- Area	Davie Bay	Favada Point	Hurtado Point	Sarah Point	Mary Point
- Map No.	3590	3591	3591	3594	3594
WEATHER					
- Water Temp. °C	16.8	14.8	15.5	15.8	15.2
- Sun	3	3	3	3	3
- Clouds - %	5	10	40	20	10
- type	1	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	2	1	3	1	16
- direction	30	30	31	32	06
- Waves - height	2	1	1	1	1
- direction	30	30	31	32	06
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 30	nil	.5 kn E 12	nil	nil
- Tides -	PA 0310 4.4	0310 4.4	3040 4.3	0340 4.3	0340 4.3
-	1025 .5	1025 .5	1115 .4	1115 .4	1115 .4
-	1805 4.5	1805 4.5	1855 4.7	1855 4.7	1855 4.7
-	2300 3.4	2300 3.4	2355 3.5	2355 3.5	2355 3.5
CATCH					
- Sockeye N	840	2005	60		1
- Av. length	n/a	n/a	n/a		n/a
- Av. weight	n/a	n/a	n/a		n/a
- Age					
- Coho N	17 (1 tag)	30		4 (1 tag)	
- Chinook N				1	
- Chum N			56		4
- Pink N	835	1205	1408	1	131
- Steelhead N					
- Herring N		5		13	
- Greenling N					
- Lamprey N					1
- Dogfish N			116		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 96	TP 97	TP 98	TP 99	TP 100
DATE	13/6/84	13/6/84	13/6/84	13/6/84	13/6/84
TIME (P.S.T.)	1220	1350	1520	1640	1815
LOCATION	Cortes Island	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.			49°53'00"	49°48'30"	49°46'40"
- Long.			124°54'30"	124°46'50"	124°42'30"
- Area	Sutil Point	Mittlenatch Island	Montgomery Bank	4.25 mi SW Vivian Island	3.5 mi S Rebecca Rock
- Map No.	3594	3591	2591	3591	3591
WEATHER					
- Water Temp. °C	15.2	14.9	16.0	16.2	17.2
- Sun	3	3	3	3	3
- Clouds - %	5	5	20	50	40
- type	1	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	2	1	1	1	3
- direction	33	32	32	26	30
- Waves - height	1	1	1	1	2
- direction	33	32	32	26	30
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn F 31	nil	nil	nil
- Tides - PA	0340 4.3	0340 4.3	0340 4.3	0340 4.3	0340 4.3
-	1115 .4	1115 .4	1115 .4	1115 .4	1115 .4
-	1855 4.7	1855 4.7	1855 4.7	1855 4.7	1855 4.7
-	2355 3.5	2355 3.5	2355 3.5	2355 3.5	2355 3.5
CATCH					
- Sockeye N	2229	190	47	15	18
- Av. length	82.36±6.71	82.33±8.78	n/a	n/a	n/a
- Av. weight	5.98±1.32	6.23±2.06	n/a	n/a	n/a
- Age					
- Coho N	3		1		
- Chinook N		1			
- Chum N	21				
- Pink N	150	6	9		
- Steelhead N				17	161
- Herring N	3		4		
- Greenling N			30	4	3
- Lamprey N			1		
- Dogfish N				24	1

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 101	TP 102	TP 103	TP 104	TP 105
DATE	19/6/84	19/6/84	19/6/84	19/6/84	19/6/84
TIME (P.S.T.)	0530	0630	0830	1000	1230
LOCATION	St. Georgia	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.		49°21'10"			
- Long.		124°1'30"			
- Area	3.5 mi N Five Finger Island	4 mi NE Winchelsea Island	Ballenas Island	Mistaken Island	French Creek
- Map No.	3577	3577	3577	3590	3590
WEATHER					
- Water Temp. °C	16.0	16.3	16.5	16.1	16.8
- Sun	0	1	2	2	1
- Clouds - %	95	95	80	90	80
- type	3	3	2	2	3
- Visibility	5	5	5	5	5
- Wind - force	1	1	2	3	0
- direction	28	28	28	28	-
- Waves - height	3	3	3	3	0
- direction	28	28	28	28	0
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 29	nil	nil	<.5 kn F 33	<.5 kn E 12
- Tides - PA	0440 3.1	0440 3.1	0440 3.1	0440 3.1	0440 3.1
-	0810 3.4	0810 3.4	0810 3.4	8010 3.4	0810 3.4
	1500 1.5	1500 1.5	1500 1.5	1500 1.5	1500 1.5
-	2245 4.5	2245 4.5	2245 4.5	2245 4.5	2245 4.5
CATCH					
- Sockeye N	2	53	189	39	1
- Av. length	n/a	85.74±7.18	n/a	n/a	n/a
- Av. weight	n/a	6.00±2.23	n/a	n/a	n/a
- Age					
- Coho N	1 juv. 1 adult		6	5	68 (2 tags)
- Chinook N			2	30	15
- Chum N	5	11	36	55	16
- Pink N	11	1 adult & 31	239	1148	867
- Steelhead N					
- Herring N			1	1	3
- Greenling N			20	17	
- Dogfish N	8		88		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 106	TP 107	TP 108	TP 109	TP 110
DATE	19/6/84	20/6/84	20/6/84	20/6/84	20/6/84
TIME (P.S.T.)	1400	0700	0845	1310	1420
LOCATION	St. Georgia	St. Georgia	Malaspina Strait	Malaspina Strait	Malaspina Strait
- Lat.	124°18'50"				
- Long.	49°24'75"				
- Area	3.5 mi N French Creek	Sangster Island	Point Upwood	Nelson Point	Cape Cockburn
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	17.8	17.0	17.1	17.0	17.0
- Sun	3	2	2	3	3
- Clouds - %	80	80	85	55	75
- type	3	2	2	2	1
- Visibility	5	5	5	5	5
- Wind - force	0	4	2	4	4
- direction	-	29	27	32	32
- Waves - height	0	3	2	2	2
- direction	-	29	27	32	32
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn E 11	<.5 kn F 29	.5 kn E 20	nil	nil
- Tides -	PA 0440 3.1	0545 2.9	0545 2.9	0545 2.9	0545 2.9
-	0810 3.4	0920 3.2	0920 3.2	0920 3.2	0920 3.2
-	1500 1.5	1550 1.9	1550 1.9	1550 1.9	1550 1.9
-	2245 4.5	2325 4.5	2325 4.5	2325 4.5	2325 4.5
CATCH					
- Sockeye N	7	31	2	3	27
- Av. length	n/a	n/a	n/a	n/a	n/a
- Av. weight	n/a	n/a	n/a	n/a	n/a
- Age					
- Coho N		1	1	32	134 (12 tags)
- Chinook N			2	30	49
- Chum N	3	8			
- Pink N	102	59	1		3
- Steelhead N		1			
- Herring N					1
- Greenling N	9	20			
- Lamprey N			5	1	2

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 111	TP 112	TP 113	TP 114	TP 115
DATE	20/6/84	20/6/84	25/6/84	25/6/84	25/6/84
TIME (P.S.T.)	1630	1810	1300	1400	1700
LOCATION	Malaspina Strait	Texada Island	St. Georgia	St. Georgia	St. Georgia
- Lat.			49°43'15"	49°42'30"	
- Long.			124°40'25"	124°39'30"	
- Area	Albion Point	Grilse Point	4 mi SW Favada Point	3.5 mi NW Exeter Shoal	Finnerty Island
- Map No.	3591	3591	3590	3590	3590
WEATHER					
- Water Temp. °C	16.0	17.0	17.5	17.5	17.8
- Sun	3	3	2	2	1
- Clouds - %	30	40	60	90	95
- type	1	1	2	2	3
- Visibility	5	5	5	5	5
- Wind - force	3	4	3	3	2
- direction	29	29	11	11	11
- Waves - height	1	3	3	3	2
- direction	29	29	11	11	11
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn F 29	.5 kn F 11	.5 kn F 11	.5 kn F 11
- Tides -	PA 0545 2.9	0545 2.9	0120 4.2	0120 4.2	0120 4.2
-	0920 3.2	0920 3.2	0900 1.2	0900 1.2	0900 1.2
-	1550 1.9	1550 1.9	1630 4.0	1630 4.0	1630 4.0
-	2325 4.5	2325 4.5	2100 3.4	2100 3.4	2100 3.4
CATCH					
- Sockeye N	131	380		31	1
- Av. length	n/a	n/a		n/a	n/a
- Av. weight	n/a	n/a		n/a	n/a
- Age					
- Coho N	2	1 adult 11 (1 tag)		4	
- Chinook N	4	1 adult 2 juv.		14	
- Chum N	1	2		144	
- Pink N	3	27		756	
- Steelhead N					
- Herring N	1	1			
- Greenling N		2			
- Lamprey N		1		1	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	TP 116	TP 117	TP 118	TP 119	TP 120
DATE	26/6/84	3/7/84	3/7/84	3/7/84	3/7/84
TIME (P.S.T.)	0645	0915	1030	1130	1300
LOCATION	Lasqueti Island	Pylades Channel	Stuart Channel	Thetis Island	Kuper Island
- Area	Fegan Island	Round Island	Kuleet Bay	1.5 mi SE Fraser Point	Lamalchi Bay
- Map No.	3590	3450	3450	3450	3450
WEATHER					
- Water Temp. °C	17.8	15.5	15.5	17.0	16.5
- Sun	0	3	3	3	3
- Clouds - %	95	50	50	75	25
- type	3	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	2	2	1	1
- direction	17	12	12	27	06
- Waves - height	2	1	1	0	0
- direction	11	12	12	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn E 12	back eddy	nil	nil
- Tides -	PA 0145 4.2	FH 0250 2.6	0250 2.6	0250 2.6	0250 2.6
-	0940 1.2	0605 2.7	0605 2.7	0605 2.7	0605 2.7
-	1715 4.0	1335 .5	1335 .5	1335 .5	1335 .5
-	2155 3.4	2140 3.4	2140 3.4	2140 3.4	2140 3.4
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N		1	1	10	
- Chinook N		15 (1 tag)	2		
- Chum N					
- Pink N		53	38	30	46
- Steelhead N				1	
- Herring N	1 juv.				
- Greenling N					
- Lamprey N					2

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	TP 121	TP 122	TP 123	TP 124	TP 125
DATE	3/7/84	4/7/84	4/7/84	4/7/84	4/7/84
TIME (P.S.T.)	1330	0830	1015	1230	1315
LOCATION	Kuper Island	Gabriola Island	Decourey Island	Northumberland Channel	Gabriola Island
- Area	Josling Point	Locke Bay	1 mi NW Pirates Cove	1 mi E Duke Point	Descanso Bay
- Map No.	3450	3443	3443	3443	3443
WEATHER					
- Water Temp. °C	14.5	16.5	13.0	16.0	15.8
- Sun	3	2	0	1	1
- Clouds - %	25	90	100	100	100
- type	2	2	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	2	2	2	0
- direction	-	09	11	12	-
- Waves - height	0	1	1	1	0
- direction	-	09	11	12	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 33	Fraser surface flow; slack tide	nil	nil	nil
- Tides -	FH 0250 2.6	PA 0410 2.9	0410 2.9	0410 2.9	0410 2.9
-	0605 2.7	0830 3.6	0830 3.6	0830 3.6	0830 3.6
-	1335 .5	1510 1.4	1510 1.4	1510 1.4	1510 1.4
-	2140 3.4	2230 4.8	2230 4.8	2230 4.8	2230 4.8
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N	3	5		3	6
- Chinook N	2	19 (1 tag)	1	38 (2 tags)	85 (4 tags)
- Chum N					
- Pink N	706	8	11	2	12
- Steelhead N					
- Herring N		1	1		
- Greenling N					
- Lamprey N		2		1	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 1	KP 2	KP 3	KP 4	KP 5
DATE	16/4/84	16/4/84	16/4/84	17/4/84	17/4/84
TIME (P.S.T.)	1200	1500	1715	0645	0800
LOCATION	Gabriola Island	St. Georgia	Bowen Island	Bowen Island	Bowen Island
- Lat.		49°15'15"			
- Long.		123°42'15"			
- Area	Locke Bay	7.5 mi NE Thrasher Rock	Seymour Landing	Cape Roger Curtis	Hutt Island
- Map No.	3577	3577	3577	3577	3526
WEATHER					
- Water Temp. °C	n/a	10	9.5	9.5	9.5
- Sun	2	2	1	2	3
- Clouds - %	90	100	100	75	50
- type	1	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	2	2	2	2	1
- direction	9	31	31	12	36
- Waves - height	2	2	1	1	1
- direction	9	31	31	12	36
- Rain - type	0	1	1	0	0
- duration	-	20	50	-	-
- Observed tide	nil	<.5 kn F 18	nil	nil	nil
- Tides - PA	0515 4.5	0515 4.5	0515 4.5	0000 2.4	0000 2.4
-	1150 1.0	1150 1.0	1150 1.0	0555 4.5	0555 4.5
-	1835 4.4	1835 4.4	1835 4.4	1240 .8	1240 .8
-				1930 4.5	1930 4.5
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N	1				
- Pink N	2				
- Steelhead N					
- Herring N					
- Greenling N					
- Flounder N				1	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 6	KP 7	KP 8	KP 9	KP 10
DATE	17/4/84	17/4/84	17/4/84	18/4/84	18/4/84
TIME (P.S.T.)	0930	1200	1730	0845	0945
LOCATION	Bowen Island	St. Georgia	Gabriola Island	Valdes Island	Valdes Island
- Lat.		123°35'00"			
- Long.		49°16'30"			
- Area	Smuggler Cove	7 mi E Passage Channel	Breakwater Island	1 mi S Dibuxante Point	Blackberry Point
- Map No.	3526	3577	3577	3443	3443
WEATHER					
- Water Temp. °C	9.5	9.5	9.5	9.8	10.0
- Sun	3	3	3	0	-
- Clouds - %	75	50	25	100	75
- type	2	2	1	3	3
- Visibility	5	5	5	5	5
- Wind - force	1	2	1	1	0
- direction	36	15	15	15	-
- Waves - height	1	1	1	1	1
- direction	36	15	15	15	15
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides -	PA 0000 2.4	0000 2.4	0000 2.4	FH 0100 2.3	0100 2.3
-	0555 4.5	0555 4.5	0555 4.5	0525 3.1	0525 3.1
-	1240 .8	1240 .8	1240 .8	1235 .5	1235 .5
-	1930 4.5	1930 4.5	1930 4.5	2015 3.2	2015 3.2
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N		12	1		
- Steelhead N					
- Herring N					
- Greenling N					2
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 11	KP 12	KP 13	KP 14	KP 15
DATE	26/4/84	26/4/84	26/4/84	26/4/84	1/5/84
TIME (P.S.T.)	0800	1000	1200	1230	0915
LOCATION	Gabriola Island	Valdes Island	Reid Island	Valdes Island	Bowen Island
- Area	Breakwater Island	1 mi S Dibuxante Point	off ruins	Cardale Point	King Edward Bay
- Map No.	3443	3443	3443	3443	3526
WEATHER					
- Water Temp. °C	9.5	9.5	9.5	9.5	11.0
- Sun	3	3	3	3	0
- Clouds - %	0	0	0	0	100
- type	-	-	-	-	3
- Visibility	5	5	5	5	3
- Wind - force	4	3	1	2	3
- direction	30	27	30	30	36
- Waves - height	3	2	1	2	3
- direction	30	27	30	30	36
- Rain - type	0	0	0	0	1
- duration	-	-	-	-	-
- Observed tide	nil	nil	<.5 kn E 12	nil	nil
- Tides -	PA 0255 4.3	FH 0230 3.1	0230 3.1	0230 3.1	PA 0445 4.1
-	0930 2.4	0920 1.9	0920 1.9	0920 1.9	1145 1.0
-	1145 3.4	1410 2.3	1410 2.3	1410 2.3	1840 4.2
-	2040 2.1	1945 1.5	1945 1.5	1945 1.5	
CATCH					
- Sockeye N			1		
- Av. length			n/a		
- Av. weight			n/a		
- Age					
- Coho N	9 adult				
- Chinook N	1 adult				
- Chum N			2		
- Pink N			5		
- Steelhead N					1
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	KP 16	KP 17	KP 18	KP 19	KP 20
DATE	1/5/84	1/5/84	1/5/84	1/5/84	1/5/84
TIME (P.S.T.)	1030	1200	1300	1400	1615
LOCATION	Bowen Island	Gambier Island	Gambier Island	Keats Island	Bowen Island
- Area	Grafton Bay	Halkett Bay	Gambier Harbor	Home Island	Seymour Bay
- Map No.	3526	3526	3526	3526	3526
WEATHER					
- Water Temp. °C	11.0	11.0	12.0	11.5	11.0
- Sun	0	0	0	0	0
- Clouds - %	100	100	100	100	100
- type	3	3	3	3	3
- Visibility	3	4	4	3	4
- Wind - force	0	1	0	1	1
- direction	-	36	-	06	20
- Waves - height	0	1	0	1	1
- direction	-	36	-	06	20
- Rain - type	0	1	1	1	1
- duration	20	20	80	100	100 ·
- Observed tide	nil	nil	nil	<.5 kn F 04	nil
- Tides -	PA 0445 4.1	0445 4.1	0445 4.1	0445 4.1	0445 4.1
-	1145 1.0	1145 1.0	1145 1.0	1145 1.0	1145 1.0
-	1840 4.2	1840 4.2	1840 4.2	1840 4.2	1840 4.2
-					
CATCH					
- Sockeye N	1				
- Av. length	n/a				
- Av. weight	n/a				
- Age					
- Coho N					
- Chinook N		1 adult		2 adult	
- Chum N	268				50±
- Pink N	35				50±
- Steelhead N					
- Herring N		1 adult 1 juv.			
- Greenling N	2				
- Flounder N	1				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	KP 21	KP 22	KP 23	KP 24	KP 25
DATE	2/5/84	2/5/84	2/5/84	2/5/84	7/5/84
TIME (P.S.T.)	0600	0730	0840	0945	1245
LOCATION	St. Georgia	St. Georgia	Gabriola Island	Gabriola Island	Secretary Island
- Lat.	49°18'30"	49°13'45"			
- Long.	123°29'00"	123°41'00"			
- Area	5 mi SW Cowan Point	5 mi NE Thrasher Rock	Breakwater Island	Thrasher Rock	E side Secretary Island
- Map No.	3577	3577	3443	3443	3442
WEATHER					
- Water Temp. °C	10.5	10.0	10.5	11.0	11.0
- Sun	2	2	3	3	1
- Clouds - %	70	90	20	40	100
- type	2	2	2	2	1
- Visibility	5	5	5	5	5
- Wind - force	1	1	0	1	0
- direction	24	29	-	06	-
- Waves - height	2	2	0	1	0
- direction	24	27	-	36	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	.5 kn F 31	nil	nil	.5 kn Fraser surface flow 36	.5 kn E 32
- Tides -	PA 0010 2.9	0010 2.9	0010 2.9	0010 2.9	FH 0400 2.9
-	0510 4.1	0510 4.1	0510 4.1	0510 4.1	1125 .5
-	1215 .8	1215 .8	1215 .8	1215 .8	1925 3.1
-	1920 4.3	1920 4.3	1920 4.3	1920 4.3	
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N			1 adult		
- Chum N					
- Pink N		1			
- Steelhead N					
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	KP 26	KP 27	KP 28	KP 29	KP 30
DATE	7/5/84	7/5/84	7/5/84	7/5/84	8/5/84
TIME (P.S.T.)	1500	1605	1715	1845	0515
LOCATION	Trincomali Channel	Active Pass	Plumper Sound	S. Pender Island	S. Pender Island
- Area	Sphinx Island	Village Bay	St. John Point	Bedwell Harbor	Bedwell Harbor
- Map No.	3442	3442	3442	3441	3441
WEATHER					
- Water Temp. °C	11.0	11.0	11.0	10.5	10.0
- Sun	1	1	0	0	0
- Clouds - %	100	100	100	100	90
- type	3	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	0	1	1	2
- direction	-	-	09	32	19
- Waves - height	0	0	1	1	1
- direction	-	-	09	32	19
- Rain - type	0	0	1	0	0
- duration	-	-	10	-	-
- Observed tide	nil	Surface F Subsurface E	.5 kn F 09	nil	<.5 kn E 31
- Tides - PA	0445 2.7	0445 2.7	0445 2.7	0445 2.7	0005 4.5
-	0800 2.6	0800 2.6	0800 2.6	0800 2.6	0545 3.3
-	1510 .5	1510 .5	1510 .5	1510 .5	0915 3.4
-					1615 1.2
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N		1 adult			
- Chinook N					
- Chum N					
- Pink N					1
- Steelhead N					
- Herring N					
- Greenling N				3	
- Sculpin (soft) N				1	25

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	KP 31	KP 32	KP 33	KP 34	KP 35
DATE	8/5/84	8/5/84	8/5/84	8/5/84	8/5/84
TIME (P.S.T.)	0700	0850	1010	1120	1240
LOCATION	Saturna Island	Mayne Island	Galiano Island	Galiano Island	Valdes Island
- Area	Narvaez Bay	Campbell Bay	Taylor Cove	5.5 mi SE Dionisio Point	2.4 mi NE Dionisio Point
- Map No.	3441	3442	3442	3442	3443
WEATHER					
- Water Temp. °C	10	12.5	11.5	12.0	12.0
- Sun	1	0	2	2	2
- Clouds - %	95	100	100	100	90
- type	3	3	3	3	2
- Visibility	5	5	5	5	5
- Wind - force	0	1	2	3	1
- direction	-	21	14	26	15
- Waves - height	1	1	1	1	1
- direction	07	21	14	26	15
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1.5 kn E 10	nil	nil	nil	nil
- Tides -	FH 0005 4.5	0005 4.5	PA 0005 4.5	0005 4.5	0005 4.5
-	0545 3.3	0545 3.3	0615 3.e	0615 3.3	0615 3.3
-	0915 3.4	0915 3.4	0930 3.4	0930 3.4	0930 3.4
-	1615 1.2	1615 1.2	1705 1.2	1705 1.2	1705 1.2
CATCH					
- Sockeye N		3			
- Av. length		n/a			
- Av. weight		n/a			
- Age					
- Coho N			1 adult		2 adult
- Chinook N					1 adult
- Chum N					
- Pink N	2				6
- Steelhead N					
- Herring N			5 adult	1	
- Greenling N					
- Flounder N			1		
- Lamprey N			1		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: G. Ellis

SET NO.	KP 36	KP 37	KP 38	KP 39	KP 40
DATE	8/5/84	8/5/84	9/5/84	9/5/84	15/5/84
TIME (P.S.T.)	1330	1700	0800	1130	1130
LOCATION	Valdes Island	Gabriola Island	Bowen Island	Bowen Island	Gabriola Island
- Area	3 mi SE Kendrick Island	Breakwater Island	Smugglers Cove	Grafton Bay	Breakwater Island
- Map No.	3443	3475	3526	3526	3475
WEATHER					
- Water Temp. °C	11.5	12.0	11.0	12.0	11.0
- Sun	3	3	0	0	3
- Clouds - %	75	65	100	100	50
- type	2	2	3	3	2
- Visibility	5	5	4	3	5
- Wind - force	4	4	5	2	2
- direction	13	08	15	10	33
- Waves - height	3	3	1	1	1
- direction	13	08	15	10	33
- Rain - type	0	0	0	1	0
- duration	-	-	-	80	-
- Observed tide	.5 kn E 14	nil	nil	nil	1.5 kn E 12
- Tides - PA	0005 4.5	0005 4.5	0050 4.5	0050 4.5	0420 4.4
-	0615 3.3	0615 3.3	0715 2.6	0715 2.6	1130 .5
-	0930 3.4	0930 3.4	1110 3.4	1110 3.4	1840 4.6
-	1705 1.2	1705 1.2	1805 1.8	1805 1.8	
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N		5 adult			3 adult
- Chinook N		1 adult	4 adult		29 (2 tags)
- Chum N			2		
- Pink N					
- Steelhead N					
- Herring N			780 juv. and adult		
- Greenling N					
- Lingcod N			1 larvae	8 larvae	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 41	KP 42	KP 43	KP 44	KP 45
DATE	15/5/84	15/5/84	16/5/84	16/5/84	16/5/84
TIME (P.S.T.)	1515	1630	0600	0730	0900
LOCATION	Bowen Island	Bowen Island	Bowen Island	Bowen Island	Gambier Island
- Area	Seymour Bay	Cates Bay	Tunstall Bay	Grafton Bay	Brigade Bay
- Map No.	3526	3526	3526	3526	3526
WEATHER					
- Water Temp. °C	12.0	13.2	11.4*	11.4*	11.4*
- Sun	3	3	0	0	2
- Clouds - %	0	0	100	100	100
- type	-	-	3	3	2
- Visibility	5	5	3	5	5
- Wind - force	1	0	0	0	0
- direction	21	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	1	0	0
- duration	-	-	100	-	-
- Observed tide	nil	nil	nil	.5 kn E 18	nil
- Tides - PA	0420 4.4	0420 4.4	0000 3.1	0000 3.1	0000 3.1
-	1130 .5	1130 .5	0455 4.3	0455 4.3	0455 4.3
-	1840 4.6	1840 4.6	1215 .4	1215 .4	1215 .4
-			1940 4.7	1940 4.7	1940 4.7
CATCH					
- Sockeye N	161	3		14	2
- Av. length	n/a	n/a		n/a	n/a
- Av. weight	n/a	n/a		n/a	n/a
- Age					
- Coho N	2			1	
- Chinook N					1 adult
- Chum N	2		35		
- Pink N					
- Steelhead N					
- Herring N	5		150 kg		
- Greenling N			2		
- Lingcod N					

* Point Atkinson Lighthouse water temp. from weather report.

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 46	KP 47	KP 48	KP 49	KP 50
DATE		16/5/84	16/5/84	16/5/84	16/5/84	17/5/84
TIME (P.S.T.)		1000	1130	1415	1600	0530
LOCATION		Howe Sound	Gambier Island	Sechelt Peninsula	Sechelt Peninsula	Malaspina Strait
- Lat.						49°32'00"
- Long.						124°3'00"
- Area		Porteau Cove	Ekins Point	Roberts Creek	Sargent Bay	3.5 mi NE Anderson Bay
- Map No.		3526	3526	3577	3577	3590
WEATHER						
- Water Temp. °C		n/a	n/a	n/a	n/a	n/a
- Sun		2	2	3	3	0
- Clouds - %		90	90	75	75	100
- type		3	3	2	2	3
- Visibility		5	5	5	5	5
- Wind - force		2	0	1	1	2
- direction		18	-	09	09	12
- Waves - height		2	0	1	1	1
- direction		18	-	09	09	12
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	1 kn F 18	.5 kn F 18	1.5 kn F 33
- Tides -	PA	0000 3.1	0000 3.1	0000 3.1	0000 3.1	0050 3.3
-		0455 4.3	0455 4.3	0455 4.3	0455 4.3	0535 4.1
-		1215 .4	1214 .4	1215 .4	1215 .4	1250 .5
-		1940 4.7	1940 4.7	1940 4.7	1940 4.7	2020 4.7
CATCH						
- Sockeye N		1	6	1063	683	1
- Av. length		n/a	n/a	n/a	n/a	n/a
- Av. weight		n/a	n/a	n/a	n/a	n/a
- Age						
- Coho N						
- Chinook N						3 jack
- Chum N						
- Pink N						2
- Steelhead N						
- Herring N				1	1	
- Greenling N					20	
- Lingcod N			10	12		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 51	KP 52	KP 53	KP 54	KP 55
DATE		17/5/84	23/5/84	23/5/84	23/5/84	23/5/84
TIME (P.S.T.)		0715	0715	0800	0915	1000
LOCATION		Lasqueti Is.	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.			49°21'35"	49°23'12"	49°25'30"	49°27'35"
- Long.			123°45'5"	123°52'5"	123°58'45"	124°5'45"
- Area		Tucker Bay	Halibut Bank	12.3 mi E Texada Is.	7.3 mi E Texada Is.	2.3 mi E Texada Is.
- Map No.		3590	3577	3577	3577	3577
WEATHER						
- Water Temp. °C		n/a	10.3	11.0	11.8	12.0
- Sun		0	1	0	3	2
- Clouds - %		100	100	100	50	75
- type		3	2	3	2	3
- Visibility		5	5	5	5	5
- Wind - force		2	1	2	1	1
- direction		12	12	12	12	12
- Waves - height		1	1	1	1	1
- direction		12	12	12	12	12
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		1.5 kn F 33	.5 kn F 30	nil	slight F 30	.5 kn F 33
- Tides -	PA	0050 3.3	0030 4.4	0030 4.4	0030 4.4	0030 4.4
-		0535 4.1	0740 2.7	0740 2.7	0740 2.7	0740 2.7
-		1250 .5	1145 3.0	1145 3.0	1145 3.0	1145 3.0
-		2020 4.7	1750 2.1	1750 2.1	1750 2.1	1750 2.1
CATCH						
- Sockeye N			1		1	
- Av. length			n/a		n/a	
- Av. weight			n/a		n/a	
- Age						
- Coho N				1 jack		
- Chinook N						
- Chum N						1
- Pink N					4	
- Steelhead N			1			
- Herring N						
- Greenling N						
- Dogfish N				1	1	
- Lingcod N			10	12		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 56	KP 57	KP 58	KP 59	KP 60
DATE	23/5/84	23/5/84	23/5/84	23/5/84	24/5/84
TIME (P.S.T.)	1130	1430	1530	1730	0530
LOCATION	Texada Island	Texada Island	Texada Island	Stillwater	Blind Bay
- Area	Cook Bay	Crescent Bay	Blubber Bay	Stillwater Bay	Fox Island
- Map No.	3590	3591	3591	3591	3590
WEATHER					
- Water Temp. °C	11.5	11.0	11.2	10.3	11.8
- Sun	3	3	3	2	1
- Clouds - %	50	50	50	75	75
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	2	2	2	0
- direction	12	15	90	15	-
- Waves - height	0	1	1	1	0
- direction	-	15	90	15	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0030 4.4	0030 4.4	0030 4.4	0030 4.4	0115 4.4
-	0740 2.7	0740 2.7	0740 2.7	0740 2.7	0815 2.4
-	1145 3.0	1145 3.0	1145 3.0	1145 3.0	1325 3.1
-	1750 2.1	1750 2.1	1750 2.1	1750 2.1	1845 2.3
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N	1 (1 tag)	4 (3 tags)			
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 61	KP 62	KP 63	KP 64	KP 65
DATE	24/5/84	24/5/84	24/5/84	24/5/84	24/5/84
TIME (P.S.T.)	0645	0845	1000	1115	1230
LOCATION	Malaspina Strait	St. Georgia	St. Georgia	Schooner Cove	Hammond Bay
- Lat.		49°28'00"	49°22'50"		
- Long.		124°07'45"	124°11'00"		
- Area	Nelson Rock	1.3 mi E Texada Island	2.0 mi NE Ballenas Island	Nankivell Point	Neck Point
- Map No.	3590	3590	3590	3590	3577
WEATHER					
- Water Temp. °C	12.0	12.0	12.0	12.8	12.5
- Sun	2	2	3	2	3
- Clouds - %	75	75	50	50	50
- type	3	3	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	1	1	0	0
- direction	-	24	24	-	-
- Waves - height	0	0	1	0	0
- direction	-	-	24	-	-
- Rain - type	0	1	0	0	0
- duration	-	100	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0115 4.4	0115 4.4	0115 4.4	0115 4.4	0115 4.4
-	0815 2.4	0815 2.4	0815 2.4	0815 2.4	0815 2.4
-	1325 3.1	1325 3.1	1325 3.1	1325 3.1	1325 3.1
	1845 2.3	1845 2.3	1845 2.3	1845 2.3	1845 2.3
CATCH					
- Sockeye N	1211	1			
- Av. length	99.26±10.34	n/a			
- Av. weight	10.29±3.31	n/a			
- Age					
- Coho N	1				
- Chinook N	2				
- Chum N		3	1		
- Pink N		26	2	1	
- Steelhead N					
- Herring N					
- Greenling N		12	15		
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 66	KP 67	KP 68	KP 69	KP 70
DATE	28/5/84	28/5/84	28/5/84	28/5/84	28/5/84
TIME (P.S.T.)	1130	1230	1400	1515	1630
LOCATION	Northwest Bay	French Creek	Qualicum	Hornby Island	Hornby Island
- Lat.					
- Long.					
- Area	Mistaken Island	.4 mi off French Creek	Little Qualicum River	St. John Point	Ford Cove
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	11.0	12.8	12.0	14.0	13.5
- Sun	2	2	3	3	3
- Clouds - %	50	50	50	50	100
- type	1	1	1	1	2
- Visibility	5	5	5	5	5
- Wind - force	2	0	1	1	3
- direction	09	-	03	06	27
- Waves - height	1	0	1	0	1
- direction	09	-	03	-	27
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	slight F 30	nil	back eddy	nil
- Tides - PA	0300 4.1	0300 4.1	0300 4.1	0300 4.1	0300 4.1
-	1000 .8	1000 .8	1000 .8	1000 .8	1000 .8
-	1720 4.3	1720 4.3	1720 4.3	1720 4.3	1720 4.3
-	2310 3.2	2310 3.2	2310 3.2	2310 3.2	2310 3.2
CATCH					
- Sockeye N					
- Av. length					
- Av. weight					
- Age					
- Coho N					6 adult
- Chinook N			2		1 adult
- Chum N					
- Pink N					
- Steelhead N					
- Herring N			larvae		
- Greenling N	2	1			
- Dogfish N				2	3

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 71	KP 72	KP 73	KP 74	KP 75
DATE	29/5/84	29/5/84	29/5/84	29/5/84	29/5/84
TIME (P.S.T.)	0600	0845	1030	1145	1245
LOCATION	Comox	Texada Island	Lasqueti Island	St. Georgia	St. Georgia
- Lat.				49°25'00"	49°29'00"
- Long.				124°20'45"	124°25'30"
- Area	Cape Lazo	Gillies Bay	False Bay	Finnerty Island	Sisters Islands
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	12.5	12.2	12.0	13.0	13.2
- Sun	2	1	2	2	3
- Clouds - %	90	90	75	75	50
- type	2	2	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	2	2	1	1	0
- direction	36	24	24	24	-
- Waves - height	1	1	1	1	0
- direction	36	24	24	24	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	.5 kn E 18	slight E 19	nil	nil	nil
- Tides - PA	0320 4.1	0320 4.1	0320 4.1	0320 4.1	0320 4.1
-	1035 .8	1035 .8	1035 .8	1035 .8	1035 .8
-	1800 4.3	1800 4.3	1800 4.3	1800 4.3	1800 4.3
-	2310 3.2	2310 3.2	2310 3.2	2310 3.2	2310 3.2
CATCH					
- Sockeye N		3	1		
- Av. length					
- Av. weight					
- Age					
- Coho N				2 juv.	
- Chinook N		1 adult		4 adult	1
- Chum N	8	1			1
- Pink N		3			
- Steelhead N					
- Herring N					
- Greenling N		150	100		5
- Dogfish N	2	1			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 76	KP 77	KP 78	KP 79	KP 80
DATE	29/5/84	29/5/84	29/5/84	30/5/84	30/5/84
TIME (P.S.T.)	1345	1445	1545	0745	0830
LOCATION	St. Georgia	St. Georgia	St. Georgia	Texada Island	Texada Island
- Lat.	49°32'30"	49°36'25"	49°40'20"		
- Long.	124°30'30"	124°35'20"	124°40'10"		
- Area	Achilles Bank	5 mi NW Achilles Bank	Exeter Shoal	Eagle Cove	Butterfly Point
- Map No.	3590	3590	3590	3591	3591
WEATHER					
- Water Temp. °C	13.5	13.5	13.5	12.0	12.5
- Sun	2	2	2	3	3
- Clouds - %	100	100	100	25	50
- type	1	1	1	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	2	1
- direction	-	-	-	33	33
- Waves - height	0	0	0	1	1
- direction	-	-	-	33	33
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	Tide Line	slight E 15
- Tides - PA	0320 4.1	0320 4.1	0320 4.1	0345 4.1	0345 4.1
-	1035 .8	1035 .8	1035 .8	1110 .6	1110 .6
-	1800 4.3	1800 4.3	1800 4.3	1835 4.5	1835 4.5
-	2310 3.2	2310 3.2	2310 3.2	2345 3.3	2345 3.3
CATCH					
- Sockeye N					9
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N					
- Chinook N					
- Chum N					1105
- Pink N					1337
- Steelhead N					
- Herring N					
- Greenling N	2				
- Dogfish N		1			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 81	KP 82	KP 83	KP 84	KP 85
DATE	30/5/84	30/5/84	30/5/84	04/6/84	04/6/84
TIME (P.S.T.)	1030	1145	1315	0945	1045
LOCATION	Texada Island	Texada Island	Texada Island	St. Georgia	Hammond Bay
- Area	Northeast Point	7.5 mi SE Northeast Point	Anderson Bay	Snake Island	Neck Point
- Map No.	3590	3590	3577	3577	3577
WEATHER					
- Water Temp. °C	12.5	12.5	13.5	12.2	12.5
- Sun	3	3	3	0	1
- Clouds - %	25	25	50	100	100
- type	2	2	2	3	3
- Visibility	5	5	5	3	5
- Wind - force	2	0	1	1	1
- direction	33	-	33	28	28
- Waves - height	1	0	0	1	1
- direction	33	-	-	28	28
- Rain - type	0	0	0	1	0
- duration	-	-	-	50	-
- Observed tide	slight E 15	slight F 33	nil	nil	nil
- Tides - PA	0345 4.1	0345 4.1	0345 4.1	0330 3.4	0330 3.4
	1110 .6	1110 .6	1110 .6	0710 3.7	0710 3.7
-	1835 4.5	1835 4.5	1835 4.5	1445 .8	1445 .8
-	2345 3.3	2345 3.3	2345 3.3	2240 4.7	2240 4.7
CATCH					
- Sockeye N	2	5	390	1	5
- Av. length	n/a	n/a	94.27±7.50	n/a	n/a
- Av. weight	n/a	n/a	8.71±2.22	n/a	n/a
- Age					
- Coho N					3
- Chinook N				4 juv. 1 adult	8 (1 tag)
- Chum N		96	61	132	70
- Pink N		528	335	270	6
- Steelhead N				1	
- Herring N					
- Greenling N	1	1			
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 86	KP 87	KP 88	KP 89	KP 90
DATE	04/6/84	04/6/84	04/6/84	04/6/84	04/6/84
TIME (P.S.T.)	1215	1345	1500	1630	1800
LOCATION	Ballenas Group	St. Georgia	St. Georgia	Hornby Island	Hornby Island
- Lat.			49°23'30"		
- Long.			124°33'00"		
- Area	Amelia Island	French Creek	7.5 mi W French Creek	Tribune Bay	Phipps Point
- Map No.	3577	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	13.0	14.0	14.2	14.2	14.0
- Sun	2	3	1	2	3
- Clouds - %	75	75	75	75	75
- type	2	2	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	0
- direction	-	-	-	-	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	.5 kn F 27	nil	nil
- Tides - PA	0330 3.4	0330 3.4	0330 3.4	0330 3.4	0330 3.4
-	0710 3.7	0710 3.7	0710 3.7	0710 3.7	0710 3.7
-	1445 .8	1445 .8	1445 .8	1445 .8	1445 .8
-	2240 4.7	2240 4.7	2240 4.7	2240 4.7	2240 4.7
CATCH					
- Sockeye N				2	
- Av. length				n/a	
- Av. weight				n/a	
- Age					
- Coho N					
- Chinook N			1 jack		1 adult (tag)
- Chum N					
- Pink N		1		10	
- Steelhead N					
- Herring N					
- Greenling N		10			
- Dogfish N				100	
- Lingcod N		100			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 91	KP 92	KP 93	KP 94	KP 95
DATE	5/6/84	5/6/84	5/6/84	5/6/84	5/6/84
TIME (P.S.T.)	0600	0730	0845	0950	1230
LOCATION	Comox	St. Georgia	St. Georgia	St. Georgia	Hernando Island
- Lat.					
- Long.					
- Area	1 mi E Cape Lazo	Little River	5 mi NW Little River	Oyster River	Spillsbury Point
- Map No.	3590	3591	3591	3591	3591
WEATHER					
- Water Temp. °C	13.0	11.2	11.0	11.5	12.5
- Sun	1	1	1	1	1
- Clouds - %	90	100	100	100	90
- type	3	3	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	1	0	1	2	2
- direction	15	-	09	09	05
- Waves - height	0	0	1	2	1
- direction	-	-	09	09	05
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	slight E 30
- Tides - PA	0445 3.3	0445 3.3	0445 3.3	0445 3.3	0445 3.3
-	0825 3.6	0825 3.6	0825 3.6	0825 3.6	0825 3.6
-	1545 1.1	1545 1.1	1545 1.1	1545 1.1	1545 1.1
-	2325 4.7	2325 4.7	2325 4.7	2325 4.7	2325 4.7
CATCH					
- Sockeye N					3
- Av. length					n/a
- Av. weight					n/a
- Age					
- Coho N			1 adult		
- Chinook N	1 jack		1 jack		
- Chum N					2
- Pink N	1				1
- Steelhead N					
- Herring N					
- Greenling N					
- Dogfish N	1	1			18

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 96	KP 97	KP 98	KP 99	KP 100
DATE	5/6/84	5/6/84	6/6/84	6/6/84	6/6/84
TIME (P.S.T.)	1315	1525	0530	0730	0830
LOCATION	Hernando Island	Desolation Sound	Desolation Sound	Twin Island	St. Georgia
- Lat.					50°00'00"
- Long.					125°4'00"
- Area	Hidalgo Point	Stacey Rock	Refuge Cove	Iron Point	3.5 mi NW Mittlenatch Island
- Map No.	3591	3562	3562	3594	3591
WEATHER					
- Water Temp. °C	12.5	12.8	13.5	12.2	12.2
- Sun	3	3	0	0	1
- Clouds - %	75	50	100	100	100
- type	2	2	3	3	3
- Visibility	5	5	5	5	5
- Wind - force	2	2	0	1	2
- direction	09	09	-	31	30
- Waves - height	1	1	0	0	1
- direction	09	09	-	-	30
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0445 3.3	0445 3.3	0550 2.9	0550 2.9	0550 2.9
-	0825 3.6	0825 3.6	0950 3.4	0950 3.4	0950 3.4
-	1545 1.1	1545 1.1	1635 1.5	1635 1.5	1635 1.5
-	2325 4.7	2325 4.7			
CATCH					
- Sockeye N	1	1	258	399	
- Av. length	n/a	n/a	81.32±5.74	n/a	
- Av. weight	n/a	n/a	5.48±1.23	n/a	
- Age					
- Coho N				1 juv. (tag)	
- Chinook N	1 jack				
- Chum N	93	3	38	24	
- Pink N	65		10	11	
- Steelhead N					
- Herring N			150 kg		15
- Greenling N					
- Dogfish N	18	25		6	15

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 101	KP 102	KP 103	KP 104	KP 105
DATE	6/6/84	6/6/84	6/6/84	6/6/84	6/6/84
TIME (P.S.T.)	0945	1045	1145	1245	1345
LOCATION	St. Georgia	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.	49°56'10"	49°52'10"	49°48'10"	49°44'10"	49°40'10"
- Long.	124°59'30"	124°54'30"	124°49'30"	125°44'30"	124°39'30"
- Area	1 mi SE Mittlenatch Island	6 mi SE Mittlenatch Island	11 mi SE Mittlenatch Island	16 mi SE Mittlenatch Island	Exeter Shoal
- Map No.	3591	3591	3591	3591	3590
WEATHER					
- Water Temp. °C	12.2	13.0	14.0	14.0	13.8
- Sun	2	3	3	3	3
- Clouds - %	90	75	75	50	50
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	1	0	1	1
- direction	30	30	-	15	24
- Waves - height	1	1	0	0	1
- direction	30	30	-	-	24
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	nil	nil	nil
- Tides - PA	0550 2.9	0550 2.9	0550 2.9	0550 2.9	0550 2.9
-	0950 3.4	0950 3.4	0950 3.4	0950 3.4	0950 3.4
-	1635 1.5	1635 1.5	1635 1.5	1635 1.5	1635 1.5
-					
CATCH					
- Sockeye N			6		
- Av. length			n/a		
- Av. weight			n/a		
- Age					
- Coho N	3 adult (1 tag)	2 adult			1 adult
- Chinook N	1 grilse	1 juv.		3 adult	
- Chum N					
- Pink N		3 adult	10 1 adult		
- Steelhead N				1	
- Herring N					
- Greenling N					
- Dogfish N			100	6	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 106	KP 107	KP 108	KP 109	KP 110
DATE		6/6/84	6/6/84	6/6/84	6/6/84	6/6/84
TIME (P.S.T.)		1445	1545	1640	1730	1900
LOCATION		St. Georgia	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.		49°36'30"	49°32'30"	49°28'30"	49°25'00"	49°22'30"
- Long.		124°35'00"	124°30'00"	124°25'00"	124°20'00"	124°11'00"
- Area		5 mi SE Exeter Shoal	Achilles Bank	Sisters Islands	5 mi SE Finnerty Island	2 mi NW Ballenas Island
- Map No.		3590	3590	3590	3590	3577
WEATHER						
- Water Temp. °C		14.2	14.5	14.5	14.2	13.8
- Sun		3	3	3	3	3
- Clouds - %		50	50	50	50	50
- type		2	2	2	2	2
- Visibility		5	5	5	5	5
- Wind - force		1	1	1	2	2
- direction		24	24	24	24	24
- Waves - height		1	1	1	1	3
- direction		24	24	24	24	24
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	nil	nil
- Tides -	PA	0550 2.9	0550 2.9	0550 2.9	0550 2.9	0550 2.9
-		0950 3.4	0950 3.4	0950 3.4	0950 3.4	0950 3.4
-		1635 1.5	1635 1.5	1635 1.5	1635 1.5	1635 1.5
-						
CATCH						
- Sockeye N					4	
- Av. length					n/a	
- Av. weight					n/a	
- Age						
- Coho N						1 adult
- Chinook N			1 jack			
- Chum N		2				
- Pink N		1		1	3	3
- Steelhead N						
- Herring N						
- Greenling N		1				
- Dogfish N				3	10	5
- Lingcod N		1				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 111	KP 112	KP 113	KP 114	KP 115
DATE	6/6/84	7/6/84	11/6/84	11/6/84	11/6/84
TIME (P.S.T.)	2015	0815	1145	1300	1400
LOCATION	St. Georgia	Northumberland Channel	St. Georgia	St. Georgia	St. Georgia
- Lat.	49°20'00"			49°23'00"	49°26'00"
- Long.	124°04'15"			124°16'30"	124°23'30"
- Area	2.8 mi E Ballenas Island	1 mi N Duke Point	Ballenas Island	5 mi W Ballenas Island	10 mi W Ballenas Island
- Map No.	3577	3577	3590	3590	3590
WEATHER					
- Water Temp. °C	13.5	12.2	15.0	15.5	15.8
- Sun	1	0	3	3	3
- Clouds - %	75	100	0	0	0
- type	3	3	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	3	2	0	0	0
- direction	24	30	-	-	-
- Waves - height	3	1	0	0	0
- direction	24	30	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	1 kn E 12	nil	nil	nil
- Tides - PA	0550 2.9	0005 4.7	0230 4.5	0230 4.5	0230 4.5
-	0950 3.4	0650 2.5	0955 .7	0955 .7	0955 .7
-	1635 1.5	1135 3.3	1705 4.3	1705 4.3	1705 4.3
-		1740 2.0	2200 3.3	2200 3.3	2200 3.3
CATCH					
- Sockeye N				4	
- Av. length				n/a	
- Av. weight				n/a	
- Age					
- Coho N	2 adult	5		1 adult	
- Chinook N			1 adult		3 adult
- Chum N	1	37		12	4
- Pink N	3	57		39	25
- Steelhead N	1				
- Herring N			500 kg		
- Greenling N					
- Dogfish N	15				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 116	KP 117	KP 118	KP 119	KP 120
DATE	11/6/84	11/6/84	12/6/84	12/6/84	12/6/84
TIME (P.S.T.)	1500	1600	0900	1300	1400
LOCATION	St. Georgia	Hornby Island	Baynes Sound	St. Georgia	St. Georgia
- Lat.	49°28'10"			49°38'15"	49°39'45"
- Long.	124°30'00"			124°46'00"	124°38'45"
- Area	5 mi SE Hornby Island	Tribune Bay	Sandy Island	4 mi E Comox Bar	Exeter Shoal
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	15.5	15.5	15.2	15.8	17.0
- Sun	3	3	3	3	3
- Clouds - %	25	25	0	0	0
- type	1	1	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	0	0	0	0	1
- direction	-	-	-	-	27
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	.5 kn F 27	nil	nil	nil	nil
- Tides - PA	0230 4.5	0230 4.5	0310 4.4	0310 4.4	0310 4.4
-	0955 .7	0955 .7	1025 .5	1025 .5	1025 .5
-	1705 4.3	1705 4.3	1805 4.5	1805 4.5	1805 4.5
-	2200 3.3	2200 3.3	2300 3.4	2300 3.4	2300 3.4
CATCH					
- Sockeye N		9			
- Av. length		n/a			
- Av. weight		n/a			
- Age					
- Coho N		19 (1 tag)	9 (1 tag)		
- Chinook N					
- Chum N		5814	230		
- Pink N		1938	19		
- Steelhead N					4 (2 tags)
- Herring N					
- Greenling N					
- Dogfish N				8	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 121	KP 122	KP 123	KP 124	KP 125
DATE		12/6/84	13/6/84	13/6/84	13/6/84	13/6/84
TIME (P.S.T.)		1515	0700	0745	0915	
LOCATION		Texada Island	Harwood Island	Harwood Island	Savary Island	St. Georgia
- Lat.						49°59'45"
- Long.						125°04'00"
- Area		Gillies Bay	Algerine Passage	W. Point Harwood Island	Stradiotti Reef	3 mi W Mittlenatch Island
- Map No.		3590	3591	3591	3591	3591
WEATHER						
- Water Temp. °C		17.2	14.5	14.5	14.5	13.8
- Sun		3	3	3	3	3
- Clouds - %		0	0	0	0	0
- type		-	-	-	-	-
- Visibility		5	5	5	5	5
- Wind - force		0	1	2	2	1
- direction		-	24	24	24	24
- Waves - height		0	0	1	1	1
- direction		-	-	24	24	24
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	nil	nil
- Tides -	PA	0310 4.4	0340 4.3	0340 4.3	0340 4.3	0340 4.3
-		1025 .5	1115 .4	1115 .4	1115 .4	1115 .4
-		1805 4.5	1855 4.7	1855 4.7	1855 4.7	1855 4.7
-		2300 3.4	2355 3.5	2355 3.5	2355 3.5	2355 3.5
CATCH						
- Sockeye N		185		5		
- Av. length		91.25±10.10		n/a		
- Av. weight		7.92±2.76		n/a		
- Age						
- Coho N						
- Chinook N		3	2			
- Chum N		187	3	12		
- Pink N		204				
- Steelhead N			1 adult			
- Herring N						
- Greenling N						
- Dogfish N					259 kg	
- Lingcod N						75

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 126	KP 127	KP 128	KP 129	KP 130
DATE	13/6/84	13/6/84	13/6/84	13/6/84	13/6/84
TIME (P.S.T.)	1200	1300	1400	1500	1600
LOCATION	St. Georgia	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.	49°57'30"	49°53'45"	49°50'00"	49°46'00"	49°42'15"
- Long.	125°07'00"	125°2'00"	124°57'00"	124°52'00"	124°46'45"
- Area	2.8 mi NE Shelter Point	2 mi SW Sentry Shoal	6 mi SW Grant Reef	2.5 mi NE Little River	3 mi E Cape Lazo
- Map No.	3591	3591	3591	3591	3591
WEATHER					
- Water Temp. °C	14.0	14.8	15.0	16.2	16.5
- Sun	3	3	3	3	3
- Clouds - %	0	0	0	0	0
- type	-	-	-	-	-
- Visibility	5	5	5	5	5
- Wind - force	1	1	1	0	0
- direction	24	24	24	-	-
- Waves - height	1	1	0	0	0
- direction	24	24	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn F 18	nil	nil	nil
- Tides - PA	0340 4.3	0340 4.3	0340 4.3	0340 4.3	0340 4.3
-	1115 .4	1115 .4	1115 .4	1115 .4	1115 .4
-	1855 4.7	1855 4.7	1855 4.7	1855 4.7	1855 4.7
-	2355 3.5	2355 3.5	2355 3.5	2355 3.5	2355 3.5
CATCH					
- Sockeye N	2	1	2		
- Av. length	n/a	n/a	n/a		
- Av. weight	n/a	n/a	n/a		
- Age					
- Coho N		1			1
- Chinook N	1 adult				
- Chum N		7	9		
- Pink N		1	6		
- Steelhead N					
- Herring N			20 adult		
- Greenling N					
- Dogfish N	3	3		5	90

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 131	KP 132	KP 133	KP 134	KP 135
DATE	19/6/84	19/6/84	20/6/84	20/6/84	20/6/84
TIME (P.S.T.)	1530	1630	0700	0815	1300
LOCATION	Hornby Island	St. Georgia	Lasqueti Island	Texada Island	Texada Island
- Lat.		49°28'35"			
- Long.		124°28.5'00"			
- Area	Tribune Bay	5 mi SE Hornby Island	Point Young	Point Upwood	Cook Bay
- Map No.	3590	3590	3590	3590	3590
WEATHER					
- Water Temp. °C	17.2	17.0	16.5	16.5	16.8
- Sun	3	0	2	2	3
- Clouds - %	75	100	80	80	75
- type	2	3	2	2	1
- Visibility	5	5	5	5	5
- Wind - force	0	0	3	2	2
- direction	-	-	25	30	27
- Waves - height	0	0	2	1	1
- direction	-	-	25	30	27
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	<.5 kn F 30	nil	.5 kn E 15	nil
- Tides - PA	0440 3.1	0440 3.1	0545 2.9	0545 2.9	0545 2.9
-	0810 3.4	0810 3.4	0920 3.2	0920 3.2	0920 3.2
-	1500 1.5	1500 1.5	1550 1.9	1550 1.9	1550 1.9
-	2245 4.5	2245 4.5	2325 4.5	2325 4.5	2325 4.5
CATCH					
- Sockeye N	30	55	13	78	6
- Av. length	n/a	94.72±8.56	n/a	119.0±13.61	n/a
- Av. weight	n/a	8.82±2.75	n/a	18.42±5.49	n/a
- Age					
- Coho N		2		7	23
- Chinook N			2 adult		
- Chum N	110	147	4	3	
- Pink N	87	141	5		1
- Steelhead N					
- Herring N					
- Greenling N					
- Lamprey N			2		1
- Dogfish N		2000 kg			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 136	KP 137	KP 138	KP 139	KP 140
DATE		20/6/84	20/6/84	20/6/84	20/6/84	21/6/84
TIME (P.S.T.)		1415	1500	1610	1745	0730
LOCATION		St. Georgia	St. Georgia	St. Georgia	St. Georgia	St. Georgia
- Lat.		49°32'45"	49°33'30"	49°34'00"	49°38'15"	
- Long.		124°23'00"	124°30'00"	124°38'00"	124°46'00"	
- Area		1.5 mi NW Fagen Islets	Achilles Bank	1.5 mi N Tralee Point	5 mi SE Cape Lazo	1.3 mi SE Chrome Island
- Map No.		3590	3590	3590	3590	3590
WEATHER						
- Water Temp. °C		17.0	17.5	16.0	17.5	16.5
- Sun		3	3	3	3	3
- Clouds - %		50	50	25	0	25
- type		1	1	1	-	1
- Visibility		5	5	5	5	5
- Wind - force		2	1	1	1	1
- direction		27	27	30	33	33
- Waves - height		2	0	0	1	1
- direction		27	-	-	33	33
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		nil	nil	nil	nil	nil
- Tides -	PA	0545 2.9	0545 2.9	0545 2.9	0545 2.9	0635 2.6
-		0920 3.2	0920 3.2	0920 3.2	0920 3.2	1100 3.1
-		1550 1.9	1550 1.9	1550 1.9	1550 1.9	1645 2.3
-		2325 4.5	2325 4.5	2325 4.5	2325 4.5	2355 4.4
CATCH						
- Sockeye N		33		10	2	2
- Av. length		n/a		n/a	n/a	n/a
- Av. weight		n/a		n/a	n/a	n/a
- Age						
- Coho N				3	2	23
- Chinook N					3 juv. 1 adult	
- Chum N		6		343	74	224
- Pink N		5		158	54	56
- Steelhead N						
- Herring N						
- Greenling N		1	2			
- Lingcod N				10±		

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 141	KP 142	KP 143	KP 144	KP 145
DATE	21/6/84	21/6/84	25/6/874	25/6/84	25/6/84
TIME (P.S.T.)	0920	1215	1115	1215	1315
LOCATION	St. Georgia	Nanoose Bay	Northumberland Channel	Snake Island	Five Fingers Island
- Area	2 mi N Qualicum River	Maude Island	1 mi SE Descanso Bay	Snake Island	Finger Island
- Map No.	3590	3590	3577	3577	3577
WEATHER					
- Water Temp. °C	15.8	17.0	16.5	16.0	17.0
- Sun	3	3	3	3	3
- Clouds - %	25	25	75	75	75
- type	1	1	1	1	1
- Visibility	5	5	5	5	5
- Wind - force	1	2	2	3	3
- direction	33	09	12	09	09
- Waves - height	1	1	1	1	1
- direction	33	09	12	09	09
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	Tide Line	.5 kn F 27	<.5 kn F 30	nil	.5 kn F 27
- Tides - PA	0635 2.6	0635 2.6	0120 4.2	0120 4.2	0120 4.2
-	1100 3.1	1100 3.1	0900 1.2	0900 1.2	0900 1.2
-	1645 2.3	1645 2.3	1630 4.0	1630 4.0	1630 4.0
-	2355 4.4	2355 4.4	2100 3.4	2100 3.4	2100 3.4
CATCH					
- Sockeye N		1			1
- Av. length		n/a			n/a
- Av. weight		n/a			n/a
- Age					
- Coho N	11	7 (1 tag)	3	1	5 (1 tag)
- Chinook N		296	4 (1 tag)	3	
- Chum N	1	38	1	1	27
- Pink N		72			21
- Steelhead N					
- Herring N			250 kg larvae		
- Greenling N	30				
- Dogfish N					20

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 146	KP 147
DATE	26/6/84	26/6/84
TIME (P.S.T.)	1000	1300
LOCATION	Valdes Island	Northumberland Channel
- Area	Blackberry Point	Harmac
- Map No.	3450	3454
WEATHER		
- Water Temp. °C	15.8	15.5
- Sun	0	0
- Clouds - %	100	100
- type	3	3
- Visibility	3	5
- Wind - force	1	2
- direction	15	09
- Waves - height	1	1
- direction	15	09
- Rain - type	1	0
- duration	10	-
- Observed tide	nil	1 kn E 09
- Tides -	FH 0050 3.1	PA 0145 4.2
-	0855 .5	0940 .9
-	1725 3.0	1715 4.2
-	2105 2.8	2155 3.5
CATCH		
- Sockeye N		2
- Av. length		n/a
- Av. weight		n/a
- Age		
- Coho N	1	
- Chinook N	7 juv. 1 jack	41
- Chum N		17
- Pink N		13
- Steelhead N		
- Herring N	250 kg larvae	
- Greenling N		
- Squid		2 kg
- Dogfish N	2	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 1	KP 2	KP 3	KP 4	KP 5
DATE	21/6/85	21/6/85	21/6/85	21/6/85	21/6/85
TIME (P.S.T.)	1030	1230	1330	1420	1530
LOCATION	Johnstone Strait	Johnstone Strait	Johnstone Strait	Johnstone Strait	Johnstone Strait
- Lat.					
- Long.					
- Area.	Bauza Islet	Sophia Island	Robson Bight	Boat Bay	Robson Bight
- Map No.	3596	3596	3596	3596	3596
WEATHER					
- Water Temp. °C	n/a	n/a	12.0	12.0	10.0
- Sun	3	3	3	3	3
- Clouds - %	25	25	25	25	50
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	0	1	0	2	0
- direction	-	27	-	24	-
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn E 27	1 kn F 12	2 kn F 06	1 kn F 09	slack
- Tides - AB	0200 4.5	0200 4.5	0200 4.5	0200 4.5	0200 4.5
-	0925 .5	0925 .5	0925 .5	0925 .5	0925 .5
-	1600 3.8	1600 3.8	1600 3.8	1600 3.8	1600 3.8
-	2100 2.2	2100 2.2	2100 2.2	2100 2.2	2100 2.2
CATCH					
- Sockeye N	1794				
- Av. length	n/a				
- Av. weight	n/a				
- Age					
- Coho N	8(1 tag)		4	4	56
- Chinook N					1 adult 1 juv.
- Chum N	122				
- Pink N					
- Steelhead N					
- Herring N					1
- Greenling N					
- Dolly Varden N					1

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 6	KP 7	KP 8	KP 9	KP 10
DATE	22/6/85	22/6/85	23/6/85	24/6/85	24/6/85
TIME (P.S.T.)	0920	1415	0545	1045	1400
LOCATION	Gilford Island	Port Harvey	Johnstone Strait	Johnstone Strait	Harbledown Island
- Lat.					
- Long.		1 mi S			
- Area.	Tribune Bay	Mist Bluff	Jesse Island	Robson Bight	Parsons Bay
- Map No.	3596	3583	3595	3596	3596
WEATHER					
- Water Temp. °C	8.0	10.2	9.0	10.0	9.5
- Sun	0	0	0	2	2
- Clouds - %	100	75	100	75	75
- type	3	3	3	3	3
- Visibility	4	5	5	5	5
- Wind - force	2	3	2	2	3
- direction	27	18	21	30	24
- Waves - height	0	0	1	1	1
- direction	-	-	21	30	24
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn E 27	1 kn F 12	2 kn F 06	1 kn F 09	slack
- Tides - AB	0245 4.4	0245 4.4	0335 4.2	0430 4.0	0430 4.0
-	1005 .7	1005 .7	1045 .8	1125 1.0	1125 1.0
-	1640 3.8	1640 3.8	1725 3.9	1810 4.0	1810 4.0
-	2155 2.2	2155 2.2	2300 2.2	2100 2.2	2100 2.2
CATCH					
- Sockeye N			112	2	
- Av. length			n/a	n/a	
- Av. weight			n/a	n/a	
- Age					
- Coho N	4	8	2	1 adult 17	
- Chinook N		10			
- Chum N		104	51		
- Pink N			8		
- Steelhead N					
- Herring N		64			
- Greenling N					
- Stickleback N		17			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 11	KP 12	KP 13	KP 14	KP 15
DATE	24/6/85	25/6/85	25/6/85	25/6/85	25/6/85
TIME (P.S.T.)	1515	0615	0800	0830	0900
LOCATION	Johnstone Strait	Johnstone Strait	Malcolm Island	Malcolm Island	Malcolm Island
- Lat.					
- Long.					
- Area.	Blinkhorn Peninsula	1/2 mi W Lewis Point	Rough Bay	Rough Bay	1 mi NW Graham Point
- Map No.	3596	3596	3569	3569	3569
WEATHER					
- Water Temp. °C	10.5	10.5	10.0	10.0	10.5
- Sun	3	0	0	0	0
- Clouds - %	50	100	100	100	100
- type	1	3	3	3	1
- Visibility	5	5	5	5	5
- Wind - force	1	0	2	2	2
- direction	30	-	24	24	27
- Waves - height	1	0	0	0	0
- direction	30	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	<.5 kn F 09	.5 kn F 09	slack	slack	nil
- Tides - AB	0430 4.0	0015 2.1	0015 2.1	0015 2.1	0015 2.1
-	1125 1.0	0540 3.8	0540 3.8	0540 3.8	0540 3.8
-	1810 4.0	1210 1.3	1210 1.3	1210 1.3	1210 1.3
-		1900 4.1	1900 4.1	1900 4.1	1900 4.1
CATCH					
- Sockeye N	4			1	
- Av. length	n/a			n/a	
- Av. weight	n/a			n/a	
- Age					
- Coho N	1				
- Chinook N	2				
- Chum N					
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					1
- Pollock N					2

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 16	KP 17	KP 18	KP 19	KP 20
DATE	25/6/85	25/6/85	25/6/85	25/6/85	25/6/85
TIME (P.S.T.)	1045	1200	1330	1440	1510
LOCATION	Queen Charlotte Strait	Queen Charlotte Strait	Queen Charlotte Strait	Queen Charlotte Strait	Queen Charlotte Strait
- Lat.	50°42'05				
	127°07'05				
- Long.	3.5 mi S				
- Area.	Numas Island	Numas Island	Brig Rock	Foster Island	Foster Island
- Map No.	3596	3596	3596	3596	3596
WEATHER					
- Water Temp. °C	10.0	10.5	10.2	10.5	10.5
- Sun	1	1	1	3	3
- Clouds - %	100	100	90	50	50
- type	3	1	1	2	2
- Visibility	5	5	5	5	5
- Wind - force	3	3	3	3	3
- direction	21	21	27	27	27
- Waves - height	1	1	1	1	1
- direction	21	21	27	27	27
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	nil	nil	.5 kn F 09	nil	nil
- Tides - AB	0015 2.1	0015 2.1	0015 2.1	0015 2.1	0015 2.1
-	0540 3.8	0540 3.8	0540 3.8	0540 3.8	0540 3.8
-	1210 1.3	1210 1.3	1210 1.3	1210 1.3	1210 1.3
-	1900 4.1	1900 4.1	1900 4.1	1900 4.1	1900 4.1
CATCH					
- Sockeye N				2	1
- Av. length				n/a	n/a
- Av. weight				n/a	n/a
- Age					
- Coho N					1
- Chinook N					
- Chum N					
- Pink N					
- Steelhead N					
- Herring N					
- Greenling N					
- Lingcod N					

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 21	KP 22	KP 23	KP 24	KP 25
DATE		25/6/85	25/6/85	25/6/85	26/6/85	26/6/85
TIME (P.S.T.)		1630	1720	1745	0645	0800
LOCATION		Malcolm Island	Malcolm Island	Malcolm Island	Johnstone Strait	Johnstone Strait
- Lat.						
- Long.		2 mi E			1 mi NW	
- Area.		Lizard Point	Mitchell Bay	Mitchell Bay	Robson Bight	Robson Bight
- Map No.		3569	3569	3569	3596	3596
WEATHER						
- Water Temp. °C		11.0	10.0	10.0	10.0	10.0
- Sun		3	3	3	3	3
- Clouds - %		50	50	50	25	10
- type		1	1	1	1	1
- Visibility		5	5	5	5	5
- Wind - force		3	3	2	0	0
- direction		24	24	24	-	-
- Waves - height		1	1	1	0	0
- direction		24	24	24	-	-
- Rain - type		0	0	0	0	0
- duration		-	-	-	-	-
- Observed tide		<.5 kn F 09	nil	nil	.5 kn F 09	<.5 kn F 06
- Tides -	AB	0015 2.1	0015 2.1	0015 2.1	0125 1.9	0125 1.9
-		0540 3.8	0540 3.8	0540 3.8	0655 3.5	0655 3.5
-		1210 1.3	1210 1.3	1210 1.3	1305 1.6	1305 1.6
-		1900 4.1	1900 4.1	1900 4.1	1950 4.3	1950 4.3
CATCH						
- Sockeye N			29	6	1	
- Av. length			n/a	n/a	n/a	
- Av. weight			n/a	n/a	n/a	
- Age						
- Coho N				3	1	102
- Chinook N			2			3
- Chum N		1 adult	5	2	1	1
- Pink N						
- Steelhead N						
- Herring N						
- Greenling N						
- Dogfish N			1			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 26	KP 27	KP 28	KP 29	KP 30
DATE	26/6/85	26/6/85	26/6/85	27/6/85	27/6/85
TIME (P.S.T.)	0845	1040	1200	0640	0720
LOCATION	Johnstone Strait	Johnstone Strait	Blackfish Sound	Blackfish Sound	Hanson Island
- Lat.					
- Long.	1 mi N			5 mi N	
- Area.	Robson Bight	Cracroft Point	Bold Head	Double Bay	Double Bay
- Map No.	3596	3596	3596	3596	3596
WEATHER					
- Water Temp. °C	10.0	10.0	10.2	9.0	n/a
- Sun	3	3	3	3	3
- Clouds - %	10	25	25	25	25
- type	2	2	2	2	2
- Visibility	5	5	5	5	5
- Wind - force	1	1	4	0	0
- direction	27	27	30	-	-
- Waves - height	0	0	3	0	0
- direction	-	-	30	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	slack	slack	slack	2 kn F 27	<.5 kn F 15
- Tides - AB	0125 1.9	0125 1.9	0125 1.9	0240 1.6	0240 1.6
-	0655 3.5	0655 3.5	0655 3.5	0820 3.4	0820 3.4
-	1305 1.6	1305 1.6	1305 1.6	1405 1.8	1405 1.8
-	1950 4.3	1950 4.3	1950 4.3	2040 4.5	2040 4.5
CATCH					
- Sockeye N	724	1		1	
- Av. length	n/a	n/a		n/a	
- Av. weight	n/a	n/a		n/a	
- Age					
- Coho N	6	9			2 (1 tag)
- Chinook N	2				
- Chum N	368				
- Pink N	25				
- Steelhead N					
- Herring N					
- Greenling N					
- Dogfish N				1	

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	KP 31	KP 32	KP 33	KP 34	KP 35
DATE	27/6/85	27/6/85	27/6/85	27/6/85	27/6/85
TIME (P.S.T.)	0820	1000	1100	1230	1400
LOCATION	Blackfish Sound	Malcolm Island	Queen Charlotte Strait	Queen Charlotte Strait	Queen Charlotte Strait
- Lat.					
- Long.	1 mi SW		1.3 mi NE		
- Area.	Bold Head	Lizard Point	Lizard Point	Foster Island	Dobbin Bay
- Map No.	3596	3596	3596	3596	3596
WEATHER					
- Water Temp. °C	9.5	10.8	10.2	9.5	9.5
- Sun	3	3	3	2	2
- Clouds - %	25	50	75	90	75
- type	2	2	3	3	2
- Visibility	5	5	5	5	5
- Wind - force	1	1	0	0	1
- direction	30	03	-	-	21
- Waves - height	0	0	0	0	0
- direction	-	-	-	-	-
- Rain - type	0	0	0	0	0
- duration	-	-	-	-	-
- Observed tide	1 kn F 12	nil	1 kn F 12	nil	slack
- Tides - AB	0240 1.6	0240 1.6	0240 1.6	0240 1.6	0240 1.6
-	0820 3.4	0820 3.4	0820 3.4	0820 3.4	0820 3.4
-	1405 1.8	1405 1.8	1405 1.8	1405 1.8	1405 1.8
-	2040 4.5	2040 4.5	2040 4.5	2040 4.5	2040 4.5
CATCH					
- Sockeye N	1	12	18	17	
- Av. length	n/a	n/a	n/a	n/a	
- Av. weight	n/a	n/a	n/a	n/a	
- Age					
- Coho N	3 (1 tag)	1 adult			6
- Chinook N		3			
- Chum N		43	19	1	
- Pink N		1 adult			
- Steelhead N					
- Sablefish N			9	5	
- Greenling N		2			
- Dogfish N	9		3		
- Black Rockfish N		2			

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 36	KP 37	KP 38	KP 39	KP 40
DATE		27/6/85	28/6/85	28/6/85	5/7/85	5/7/85
TIME (P.S.T.)		2015	0730	0815	0845	0915
LOCATION		Malcolm Island	Malcolm Island	Malcolm Island	Malcolm Island	Queen Charlotte Strait
- Lat.						
- Long.					3 mi W	5.5 mi SW
- Area.		Rough Bay	Rough Bay	Pulteney Point	Pulteney Point	Numas Island
- Map No.		3596	3596	3596	3596	3596
WEATHER						
- Water Temp. °C		10.0	10.0	10.0	10.0	9.5
- Sun		1	1	2	2	2
- Clouds - %		100	100	75	95	100
- type		3	3	2	3	3
- Visibility		5	5	5	5	5
- Wind - force		1	0	0	0	0
- direction		27	-	-	-	-
- Waves - height		0	0	0	0	0
- direction		-	-	-	-	-
- Rain - type		0	0	0	0	0
- duration		-	-	-	sub-surface flow	-
- Observed tide		slack	slack	backeddy	1 kn F 09	nil
- Tides -	AB	0240 1.6	0345 1.2	0345 1.2	0220 4.7	0220 4.7
-		0820 3.4	0950 3.5	0950 3.5	0930 .4	0930 .4
-		1405 1.8	1505 2.0	1505 2.0	1550 4.1	1550 4.1
-		2040 4.5	2130 4.7	2130 4.7	2115 2.0	2115 2.0
CATCH						
- Sockeye N		1 adult				
- Av. length		n/a				
- Av. weight		n/a				
- Age						
- Coho N						
- Chinook N						
- Chum N						
- Pink N						
- Steelhead N						
- Herring N						1
- Greenling N						
- Lingcod N						

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.		KP 41	KP 42	KP 43
DATE		5/7/85	5/7/85	5/7/85
TIME (P.S.T.)		1000	1130	1235
LOCATION		Queen Charlotte Strait	Queen Charlotte Strait	Queen Charlotte Strait
- Lat.				
- Long.		3.5 m SW	S coast	N coast
- Area.		Numas Island	Numas Island	Numas Island
- Map No.		3596	3596	3596
WEATHER				
- Water Temp. °C		10.0	10.5	9.8
- Sun		3	2	3
- Clouds - %		90	95	90
- type		3	3	3
- Visibility		5	5	5
- Wind - force		0	0	0
- direction		-	-	-
- Waves - height		0	0	0
- direction		-	-	-
- Rain - type		0	0	0
- duration		-	-	-
- Observed tide			tideline	tideline
- Tides -	AB	0220 4.7	0220 4.7	0220 4.7
-		0930 .4	0930 .4	0930 .4
-		1550 4.1	1550 4.1	1550 4.1
-		2115 2.0	2115 2.0	2115 2.0
CATCH				
- Sockeye N		18		
- Av. length		n/a		
- Av. weight		n/a		
- Age				
- Coho N			2	
- Chinook N				
- Chum N		12		
- Pink N				
- Steelhead N				
- Herring N				
- Greenling N				
- Lingcod N				

GEORGIA STRAIT JUVENILE SOCKEYE MIGRATION PROJECT.

RECORDER: K. Cooke

SET NO.	MP 1	MP 2	MP 3
DATE	17/7/85	17/7/85	25/7/85
TIME (P.S.T.)	1815	1845	1815
LOCATION	Johnstone Strait	Johnston Strait	Johnstone Strait
- Lat.			
- Long.			
- Area.	Bauza Cove	Bauza Cove	Otter Cove
- Map No.	3596	3596	3566
WEATHER			
- Water Temp. °C	10.5	10.5	n/a
- Sun	3	3	3
- Clouds - %	0	0	0
- type	-	-	-
- Visibility	5	5	5
- Wind - force	2	2	0
- direction	27	27	-
- Waves - height	1	1	0
- direction	27	27	-
- Rain - type	0	0	0
- duration	-	-	-
- Observed tide	<.5 kn E 34	1 kn E 34	nil
- Tides -	AB 0720 .5	0720 .5	OB 0315 1.6
-	1345 3.8	1345 3.8	0910 2.8
-	1845 2.1	1845 2.1	1405 2.2
-			2055 4.0
CATCH			
- Sockeye N	12	85	25
- Av. length	n/a	n/a	n/a
- Av. weight	n/a	n/a	n/a
- Age			
- Coho N	4	15	
- Chinook N			6
- Chum N	2		1000 pink and chum
- Pink N	1		
- Steelhead N			
- Herring N	1	20	25
- Greenling N			
- Lingcod N			

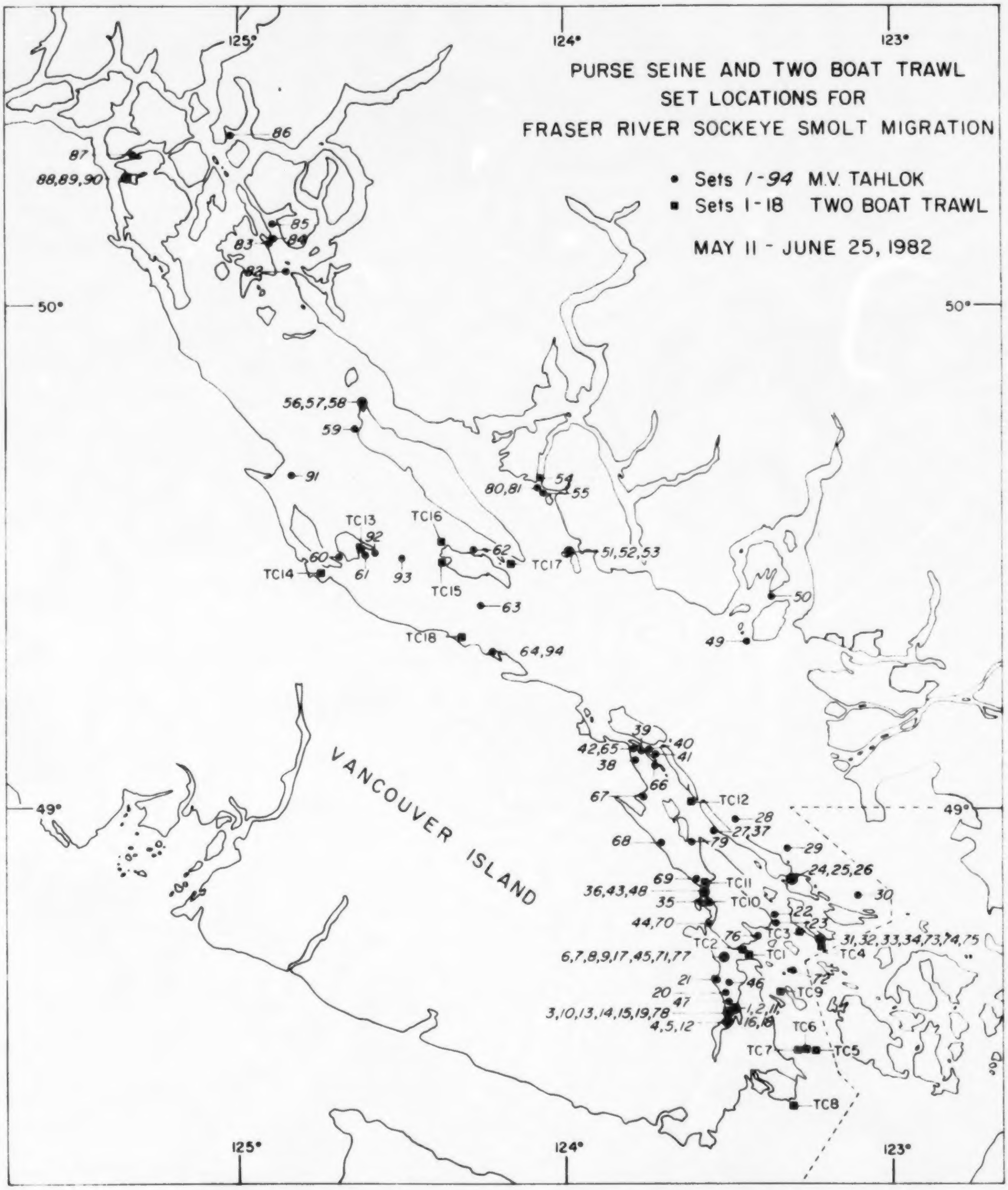

PURSE SEINE AND TWO BOAT TRAWL
SET LOCATIONS FOR
FRASER RIVER SOCKEYE SMOLT MIGRATION
● Sets 1-94 M.V. TAHLOK
■ Sets 1-18 TWO BOAT TRAWL
MAY 11 - JUNE 25, 1982
125°
124°
123°
50°
49°
VANCOUVER ISLAND
86
87
88,89,90
85
83
84
82
56,57,58
59
91
54
80,81
55
TC13
92
TC16
62
TC17
51,52,53
60
61
93
TC14
TC15
63
50
49
TC18
64,94
39
42,65
40
41
38
66
67
TC12
28
27,37
68
79
29
24,25,26
69
TC11
36,43,48
35
TC10
30
22
44,70
TC3
23
76
31,32,33,34,73,74,75
TC2
TC1
TC4
6,7,8,9,17,45,71,77
21
46
72
20
TC9
47
3,10,13,14,15,19,78
1,2,11
16,18
4,5,12
TC6
TC7
TC5
TC8

Fig. 1. Purse seine and two boat trawl set locations for Fraser River sockeye smolt migration May 11 - June 25, 1982.

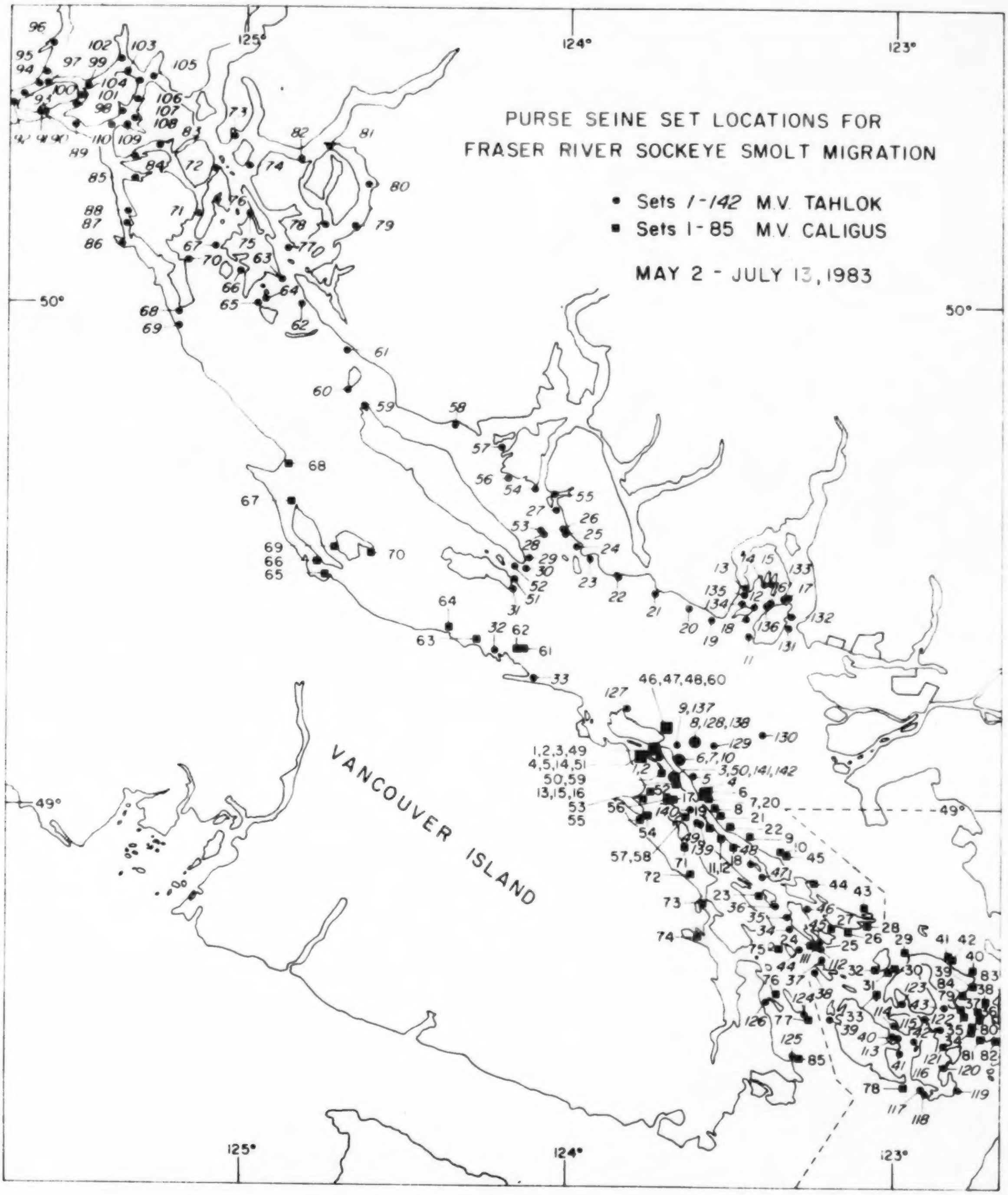

PURSE SEINE SET LOCATIONS FOR
FRASER RIVER SOCKEYE SMOLT MIGRATION
● Sets 1-142 M.V. TAHLOK
■ Sets 1-85 M.V. CALIGUS
MAY 2 - JULY 13, 1983
VANCOUVER ISLAND
125°
124°
123°
50°
49°

Fig. 2. Purse seine set locations for Fraser River sockeye smolt migration May 2 - July 13, 1983.

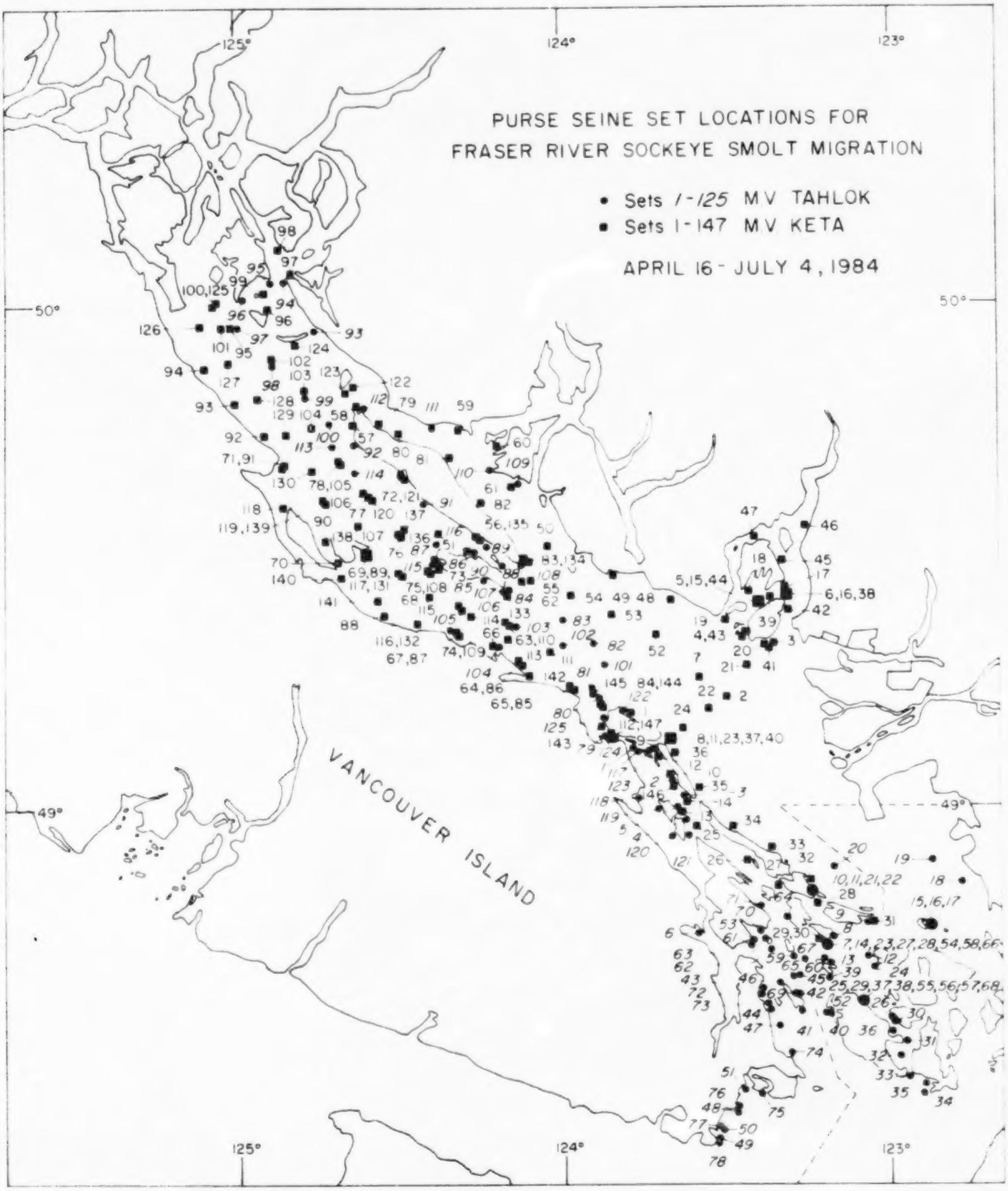

PURSE SEINE SET LOCATIONS FOR
FRASER RIVER SOCKEYE SMOLT MIGRATION
• Sets 1-125 M.V. TAHLOK
■ Sets 1-147 M.V. KETA
APRIL 16 - JULY 4, 1984
125°
124°
123°
50°
49°
VANCOUVER ISLAND

Fig. 3. Purse seine set locations for Fraser River sockeye smolt migration April 16 - July 4, 1984.

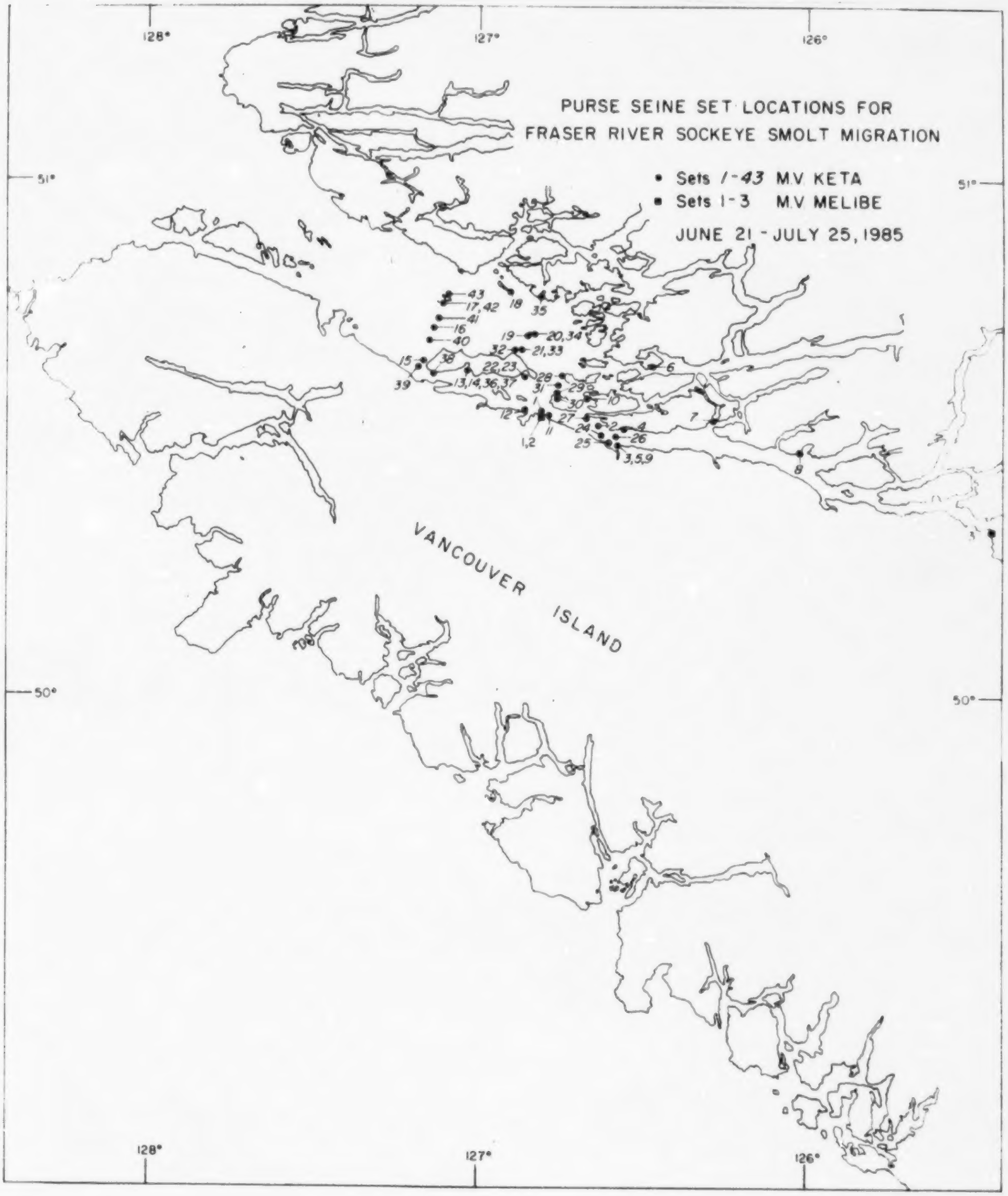

128°
127°
126°
51°
50°
PURSE SEINE SET LOCATIONS FOR
FRASER RIVER SOCKEYE SMOLT MIGRATION
● Sets 1-43 M.V. KETA
■ Sets 1-3 M.V. MELIBE
JUNE 21 - JULY 25, 1985
43
17,42
18
35
41
16
40
19
20,34
32
21,33
15
38
22,23
39
13,14,36,37
28
31
29
30
10
6
1
12
1,2
11
27
24
2
4
26
25
3,5,9
7
8
3
VANCOUVER ISLAND

Fig. 4. Purse seine set locations for Fraser River sockeye smolt migration June 21 - July 25, 1985.